

BUILDING TYPES STUDY:

RECORD HOUSES OF 1976

PLUS APARTMENTS OF THE YEAR

TWENTY EXCEPTIONAL HOUSES AND SIX MULTI-FAMILY PROJECTS SELECTED FOR THE 1976 AWARDS OF EXCELLENCE FOR DESIGN

ARCHITECTURAL RECORD



"Tredway's installed cost is very close to vinyl-asbestos tile. And we haven't had

a single callback on any Armstrong Tredway floor."

An interview with Rochester builder, Art Titus of Ryan Homes

How does the cost of Tredway compare to vinylasbestos tile?

"With vinyl-asbestos tile, you need a two-layer subfloor. But with Tredway, you don't use any underlayment. Because of its built-in elasticity, you can install it directly over a T & G plywood subfloor and eliminate the plywood underlayment. So Tredway becomes totally competitive in cost to the combination of underlayment and tile.

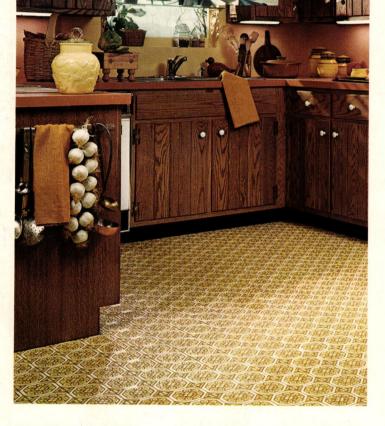
"In fact, because we've eliminated the underlayment, Tredway costs us considerably less than any other cushioned vinyl material."



Tredway adjusts to subfloor changes

Does Tredway live up to your expectations?

"Definitely. We liked the flexibility, the convenience, and the speedy installation. The fact that Tredway didn't show ridging or buckling certainly was something we were all happy about. Tredway's elasticity eliminates these problems because it expands and contracts to meet subfloor shifts."



What about callbacks?

"So far, we haven't had a single complaint. What we're looking for is satisfied customers. When a product gives you that, the way Tredway has, you know it's doing the job for you."

Has Tredway affected your schedule?

"Very much so. We've been able to schedule Tredway's installation toward the end of the job. So we don't suffer the wear and tear, the damage we run into with vinyl-asbestos tile. And scheduling the floor installation after all the kitchen guys are done sure makes the new homeowner happier."

How about repairs?

"So far, we haven't had to make any. But we think it's great to have a product where you don't have to rip up the whole works and reprepare the subfloor the way you have to do with vinyl-asbestos tile."

What have been your customers' reactions to Tredway?

"Our customers were quick to realize the advantages of a Tredway floor. They've lived through tile floors. They know the problems you can have with them. They also like the idea of a cushioned vinyl material that's tough, highly scuff-resistant and offers cleaning advantages over vinylasbestos tile. They've seen the TV commercials, the ads. They know the better things, like a Tredway floor, that are available on the market. Tredway is a very salable item, and we've had excellent results with the

Thanks, Art. We couldn't have said it any better.

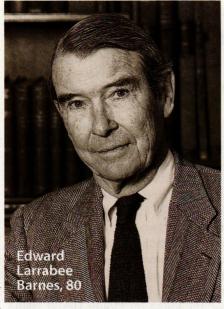
You didn't mention that Tredway is also the only floor Armstrong recommends over particleboard, so we will. What about you? Why not give Tredway a try. You can select from four knockout Tredway patterns, in colors designed for today's interiors.

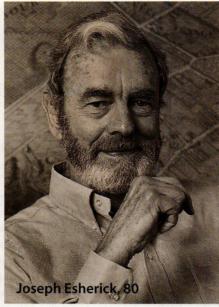


Tredway from Armstrong. Compared to tile installed over wood subfloors, you get far more floor for your flooring dollar.

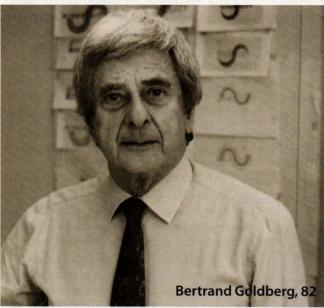
Call your Armstrong flooring contractor today, while your next house is going up, and get all the facts about Tredway. Or drop a note to: Armstrong, 305 Rock St., Lancaster, Pa. 17604.



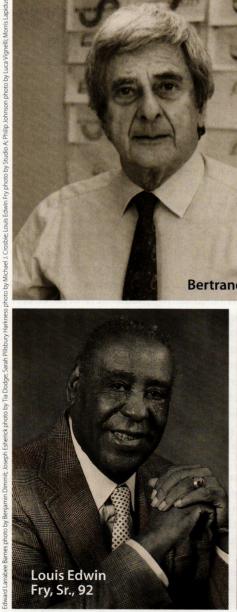


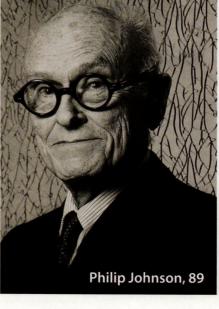


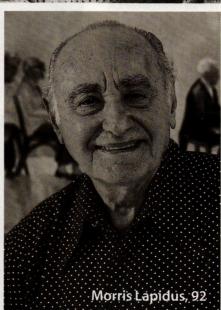


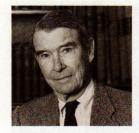












Edward Larrabee Barnes

Forward with Renewed Conviction

It would be hard to exaggerate the amplitude of Edward Barnes's practice - close to 50 years of prolific output ranging from houses to campus planning, churches to office towers. His oeuvre encompasses seminal works like the Haystack Mountain School of Crafts (winner in 1994 of the AIA Twenty-Five-Year Award), and major public buildings such as the Walker Art Center (1984), and the Thurgood Marshall Federal Judiciary Building (1992). Among the 480-odd alumni of his office (founded in 1949 and run in fruitful collaboration with his wife, Mary) are figures now prominent in their own right: Charles Gwathmey, Robert Siegel, Giovanni Pasanella, Alexander Cooper, Laurie Olin, Toshiko Mori, Bruce Fowle, and Jaquelin Robertson.

Looking back, Barnes admits he is "proudest" of his early work – the houses, low-cost housing, schools, and camps built through the early 1970s – which bears the stamp of a disciplined yet humane Modernism, molded in the wake of the Depression under the tutelage of Gropius and Breuer at Harvard. "When I went to architecture

school in the 1940s I thought social concern and architecture were part and parcel of the same thing," he says, adding ruefully, "Little did I think I'd be working for developers 30 years later."

Projects like the Heckscher House of 1974

Projects like the Heckscher House of 1974 (top left) display Barnes's lifelong preoccupations with "volumetric architecture, sculptural, abstract forms, extremely simple plans," and a spare palette of materials (in this case, shingles used with minimal detail for walls and roofs). Likewise, the house on Mount Desert Island, Maine, is characteristic of his work for its sensitivity to site and landscape.

By contrast, his speculative office buildings of the late 1970s and early 1980s are, in the architect's own judgment, largely "skin jobs." Barnes's self-indictment is perhaps overly harsh, since his office towers almost always reveal contextual considerations, especially the 1983 IBM tower in New York, whose bamboo-planted greenhouse atrium is prized as an urban amenity.

Now 80, and working on his own as a consultant, Barnes has retained a curiosity, currency, and an openness to change that make him more limber intellectually than many people a fraction of his age. But perhaps it is his seasoned optimism that is most rejuvenating: likening the recent recession and the ever growing gap between the haves and the have-nots to conditions that prevailed during the Roosevelt era, he sees the social and economic disparities as "a breeding ground" for creative new thinking in the area of urbanism and housing, albeit without the government supports of the New Deal.

Having lived to see the hopeful housing projects of the 1930s become crime-ridden slums, he believes our efforts as architects must now be underpinned by a comprehension of the issues that is "more than paper-thin." For a recent studio he taught at Harvard, focusing on low-income housing rehabilitation, Barnes acted on his own advice, bringing in a social scientist to deepen his students' understanding.

In the face of the country's tidal conservatism and the hard times besetting architects everywhere (including his own son), Barnes is regretful but undaunted. "Of course I believe there's room for idealism in the profession now," he asserts. "Artists are idealists."

Ziva Freiman

With its rooms housed in discrete structures unified by a deck, the 1974 Heckscher House (right) exemplified Barnes's "platform plan". An effort to "come to terms with the impact of context" can be seen in the newly completed Luce Center for International and Area Studies at Yale (below), designed with former partners John M. Y. Lee and Tom Chula.







Cover: Private residence, Mt. Desert Island, Maine Photographer: David Franzen

LAVENSON

THE RECORD REPORTS

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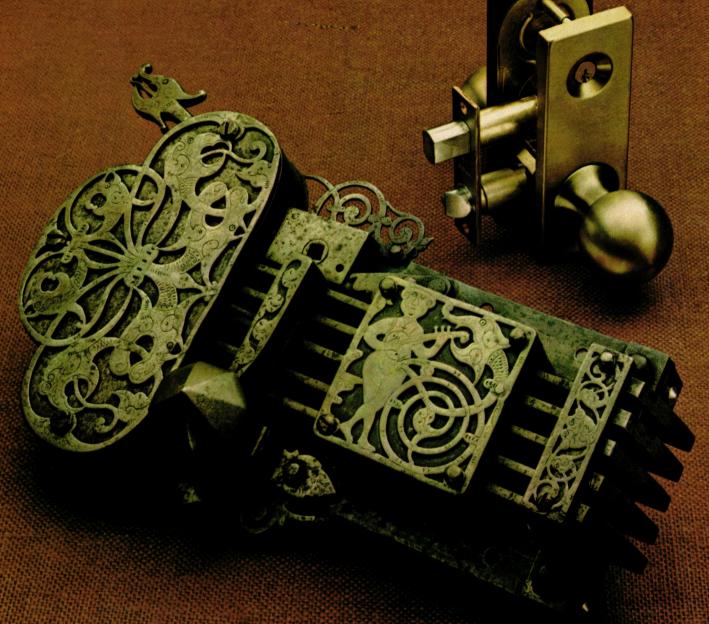






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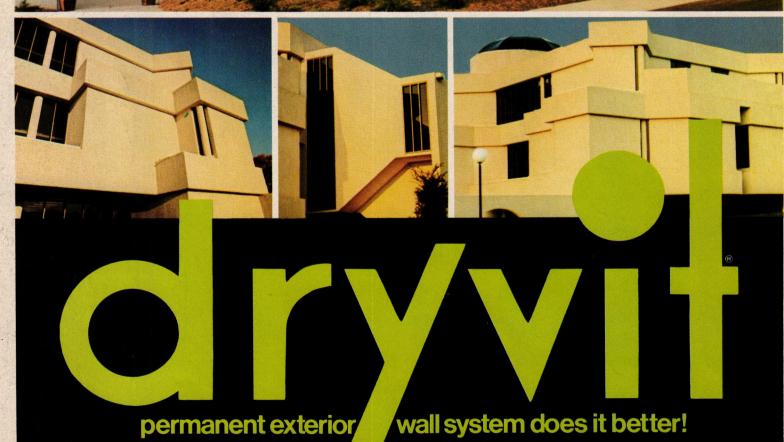
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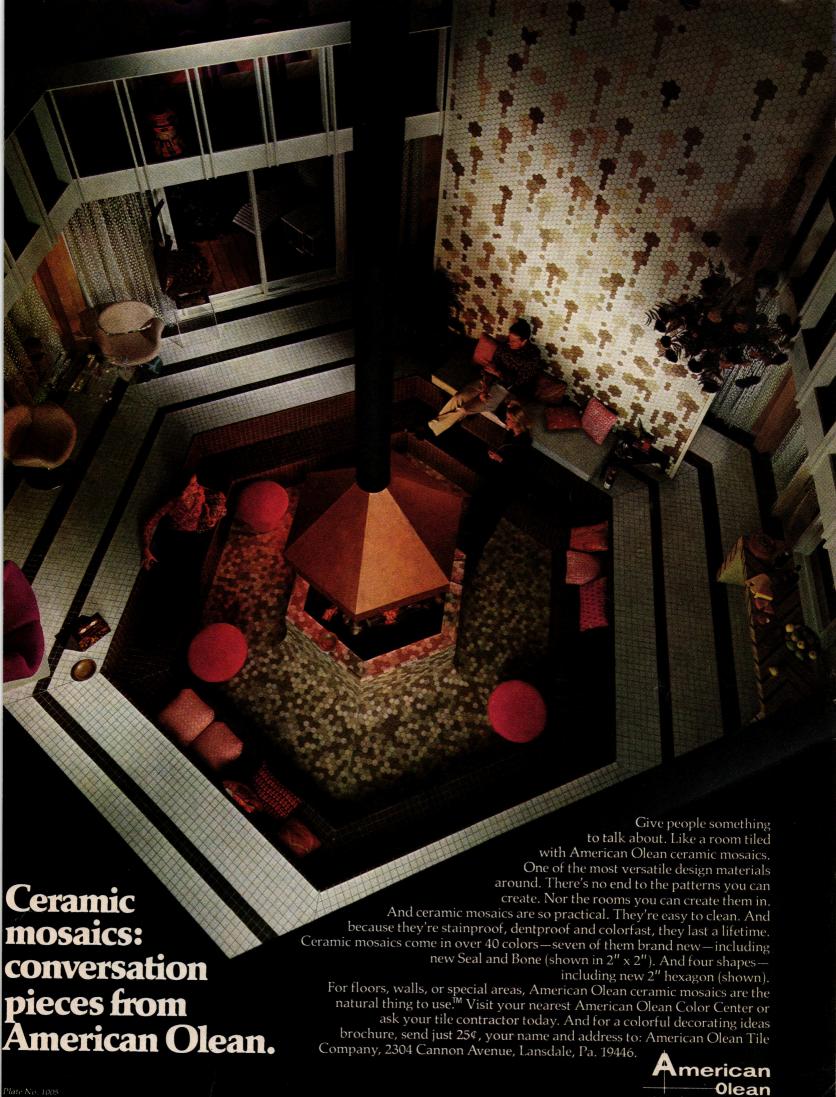
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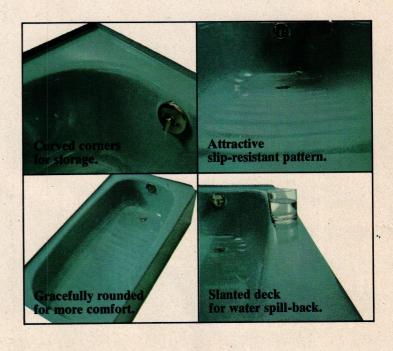
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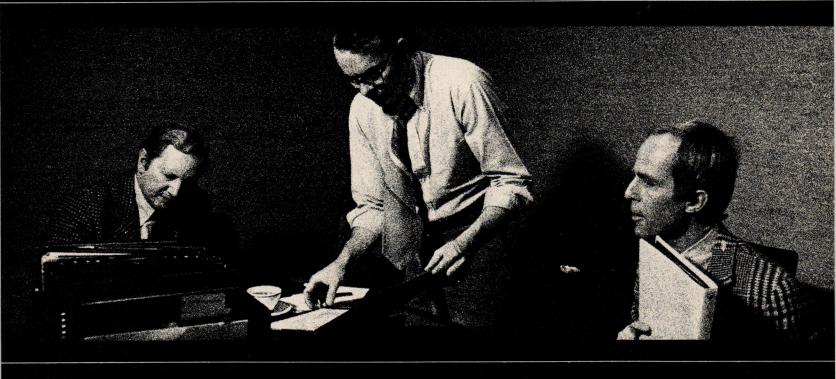
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The Winners: 1976 Plywood Design Awards

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William Turnbull, Jr., Chairman

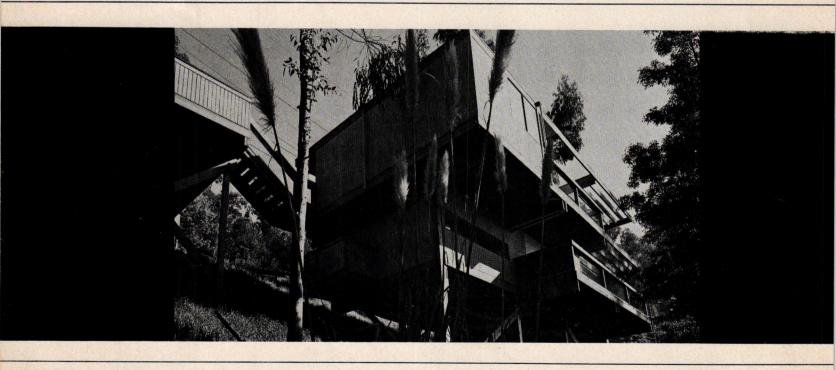
Remmert W. Huygens



1976 Plywood Design Awards Residential/Single Family

CITATION: Daniel Solomon, AIA. LOCATION: Berkeley, California. JURY: "This is a very competent, straightforward residential project. It uses a builder's technique to provide a low-cost solution on a difficult site. The plywood detailing is crisp and well-executed."

Citation



Residential/Multifamily

CITATION: Donald Sandy, Jr., AIA, and James A. Babcock, Architects and Planners. LOCATION: Sacramento, California. JURY: "Through the use of architectural form, Sunrise attempts to create a sense of place on a relatively character-

CITATION: Childs Bertman Tseckares Associates, Incorporated. LOCATION: Mashpee, Massachusetts (Cape Cod). JURY: "Competently but conventionally done. Reflects nicely handled massing and offers a pleasant place to live."

CITATION: Donald MacDonald, AIA, and Robert Dahlstrom, AIA. LOCATION: San Francisco, California. JURY: "A multifamily urban building done in the San Francisco idiom. It relates in scale to its older neighbors."

Citation Citation Citation







Commercial/Institutional

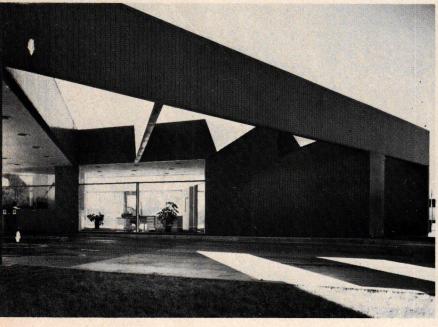
FIRST AWARD: Charles Herbert & Associates, Incorporated. PROJECT: Home State Bank Drive-up office, Jefferson, Iowa. JURY: "Clarity of concept precludes the necessity of identifying graphics. The building is a sign."

CITATION: Carlton S. Abbott, AIA, Abbott Assoc. PROJECT: Temporary Sales Center, Williamsburg, Virginia. JURY: "An integration of fabricated simplicity and the craftsmanship of field construction."

CITATION: Rolly Pulaski & Associates. PROJECT: Moulton Niguel Water District office, Laguna Niguel, California. JURY: "Elegant use of plywood. Nice four-sided quality. Inviting residential character."

CITATION: Charles Herbert & Associates, Inc. PROJECT: American Federal Savings and Loan Association, S.W. 9th St. office, Des Moines, Iowa. JURY: "Talented rehabilitation of existing structure. Shows potential of plywood in other than a foursquare manner."

First Award Citations





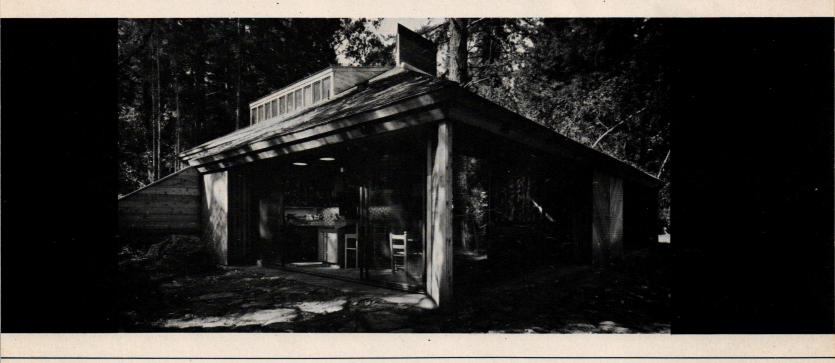




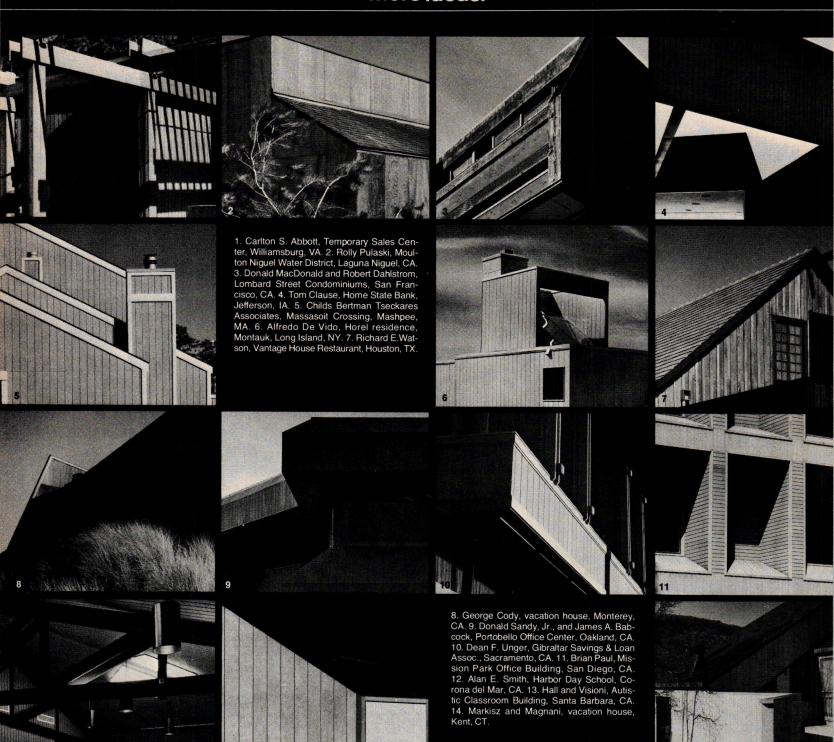
Vacation Homes

CITATION: Kirby Ward Fitzpatrick, AIA. LOCATION: Saint Helena, California. JURY: "Handsome vacation pavilion respectful to its site. The architect used plywood in a traditional manner with the exception of the roof where he turns a plywood structural solution into a visual complement to the other materials."

·Citation

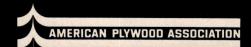


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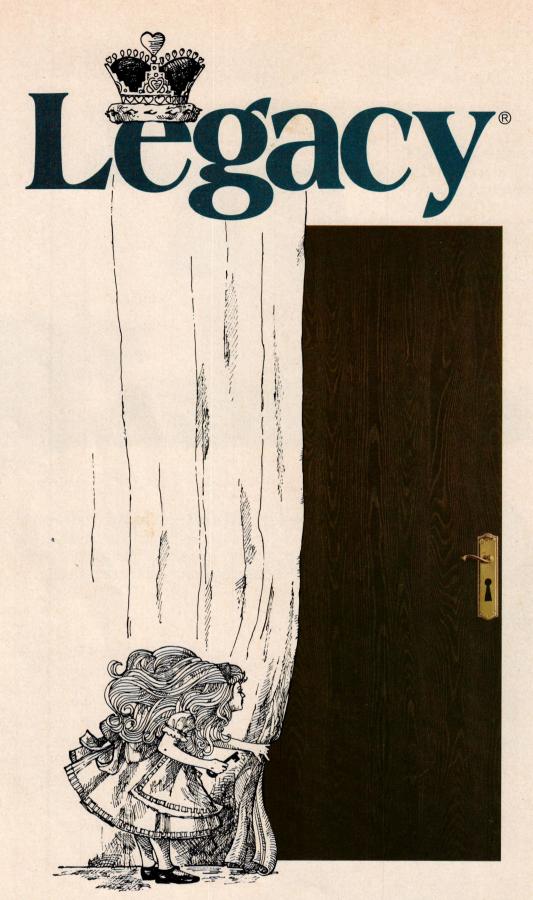


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For the first three months, every cent you pay in rent is applied toward the purchase price of a PD-80. From four to six months, 75% of your rent applies. A declining scale sets in after that. Don't confuse our plan with anyone else's. Ours gives you a no-questions, no-penalty, 30 day cancellation.

The Rent with Option to Buy plan is our way of showing you out front that in cost, convenience and

quality, the odorless PD-80 can't be beat.

Send for complete information. Or call your nearby Bruning sales office and get the whole story in a hurry. Bruning, 1834 Walden Office Square, Schaumburg, III. 60172.

We help engineers communicate.



ADDRESSOGRAPH MULTIGRAPH



For more data, circle 62 on inquiry card

Which house costs less to heat?



This one with aluminum siding?

When you put Shakertown Panels up, heating costs go down. That's because almost 25% of a home's heat loss is through the walls. And Shakertown Panels insulate better than almost any other sidewall material.

Take a look at Shakertown Panels' R value (the higher the number, the better the insulator): It's 1.13. That's better than aluminum siding (R .70), a 4" thick brick veneer (R .44), wood lap siding (R .78), and most other conventional siding materials.

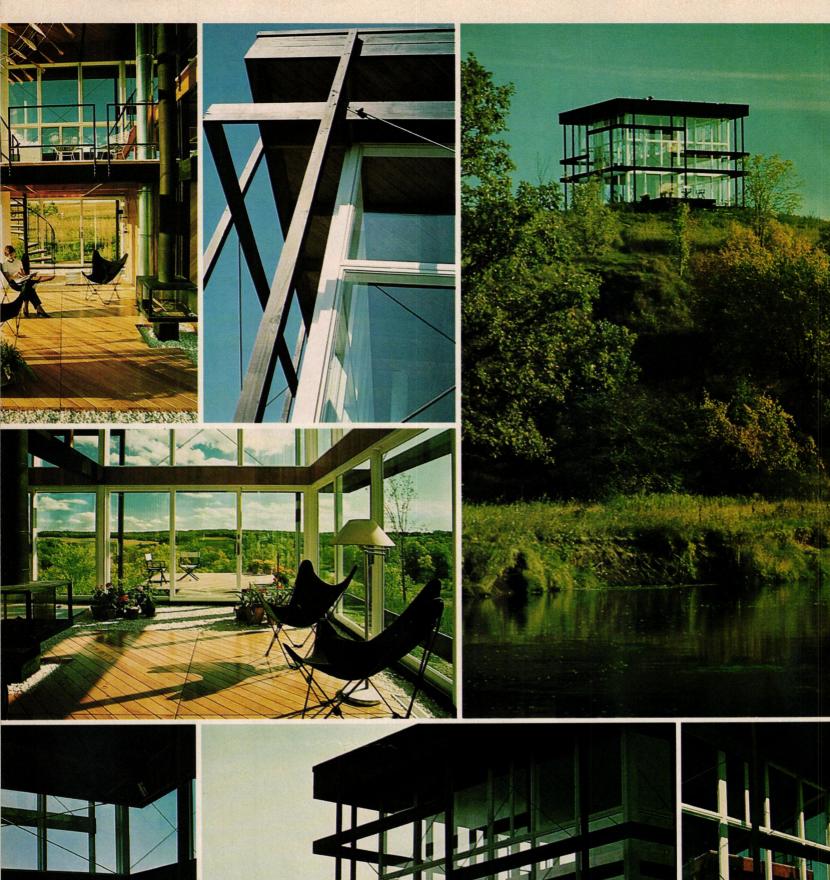
Or this one with Shakertown Panels?

Why do Shakertown Panels insulate so well? Because each 8-foot long panel is made from #1 Certigrade Western Red Cedar shakes and shingles permanently bonded to a wood backing. So you get the superior cellular insulation of cedar along with the extra protection of a plywood veneer.

Find out more about how Shakertown Panels keep labor costs, callbacks and heating costs down. Write for our free insulation brochure.



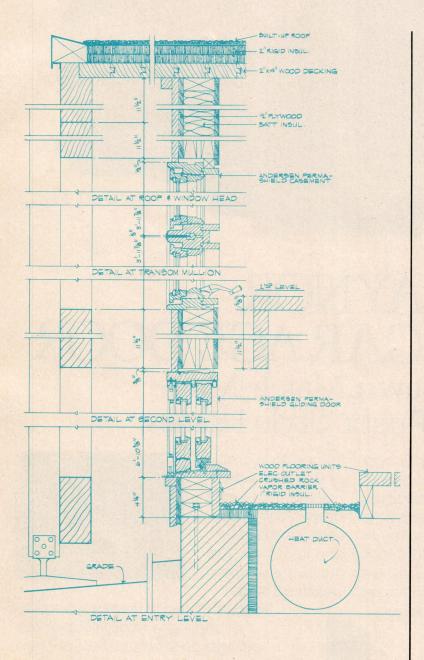
In Canada: Bestwood Industries, Ltd., Box 2042, Vancouver, B.C. V6B 3R6







Rapsons' Glass Cube (48 Andersen Windows and 8 Andersen Gliding Doors).



Rapsons' Glass Cube Apple River Valley, Wisc. Architect: Ralph Rapson, F.A.I.A.

5055G Copyright @ Andersen Corp., Bayport, Minn. 1975

Designing his own weekend home was a lot tougher than award-winning architect Ralph Rapson thought.

Mainly because a conventional retreat just wouldn't do. He wanted a place that would allow him to take full advantage of the picturesque Apple River Valley.

So Mr. Rapson designed a transparent home to permit continuity of nature throughout the house.

His vehicle for bringing the idea to life? Andersen® Perma-Shield® Windows and Gliding Doors.

Mr. Rapson was impressed by their solid, sturdy construction and neat, trim lines.

And Mrs. Rapson liked their smooth, silent, easy operation.

The Rapsons will have plenty of time away from window chores to enjoy their home, too.

Because Perma-Shield Windows and Gliding Doors are made of treated wood and sheathed in long-life rigid vinyl that doesn't chip, flake, peel or blister. Doesn't rust, pit or corrode.

And double-pane insulating glass provides a major part of the fuelsaving benefits of storm windows.

So, whether you're constructing a weekend retreat or an everyday building, use Perma-Shield Windows and Gliding Doors.

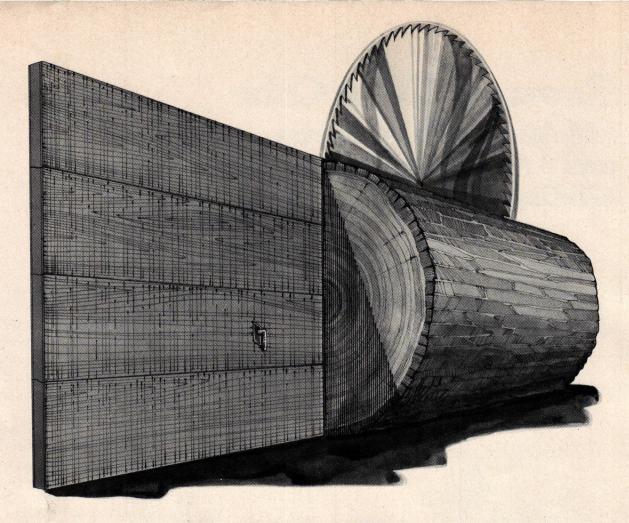
For more information see Sweet's, File 8P. Or call your Andersen Dealer or Distributor. He's in the Yellow Pages under "Windows."

The beautiful, carefree window.





For more data, circle 12 on inquiry card



RAYNOR RANGER GARAGE DOOR

Rough-Sawn Match-Mate For Your Rustic Style Homes

The new Raynor Ranger tremendous amount garage door fills a long-felt need in garage door styling. With its authentic rough-sawn cedar look, the Ranger fits perfectly with today's popular designs in homes

-homes with a natural, wide open spaces quality, homes that belong in a rustic setting. It's really a specially textured hardboard surface that can be stained any color desired, to blend or contrast with the color of the home. The Raynor Ranger has a great inside story, too, for underneath the rough-sawn paneling is a rigid honeycomb that provides a

of strength while holding the weight down. All four door sections are a full one inch thick. The hardware is custom designed and



manufactured in Raynor's tradition of offering a totally trouble-free garage door system. For your next home project, specify the door that matches and enhances your design. The Raynor Ranger, in one and two car sizes. We'll be happy to send you literature.

Ask about our automatic operator for extra convenience and energy conservation to your home buyers.

RAYNOR.
The Brand You Can Depend On

RAYNOR MANUFACTURING COMPANY

Dept. RH-5, DIXON, ILLINOIS 61021



For Distinctive Earth Tones Depend On Whitacre-Greer Architectural Face Brick And Pavers

Whitacre-Greer Architectural Pavers and Face Bricks are products of one of the country's richest clay areas — east central Ohio. The character and wide appeal of this attractive, unique range of earth tones is due to these rich Ohio deposits, processed with a variety of additives under rigidly controlled firing conditions. Finishes shown here are

90 TWILIGHT

FULL RANGE IRON SPOT BRICK CALEDONIA BROWN



102 MATTE

99-100

101F SEMI

All of the brick shown are available in standard size. Most are available in 115%" length, plus 8 and 12-inch squares. The 8-square and 12-square shapes meet ASTM Designation C-652 Type HBS, or C-212 Type FTS. Others meet ASTM Designation C-216 Type FBS.

available in a variety of shapes and sizes. All are designed for severe weather use.

For name of your nearest Whitacre-Greer representative, call **SWEETS BUYLINE**. Or, write or call collect to Whitacre-Greer, Waynesburg, Ohio 44688 Phone (216) 866-9331

CANDLELIGHT

CALEDONIA BROWN IRON SPOT

FULL RANGE IRON SPOT





RUSTIC

ANTIQUE RANGE

MULBERRY

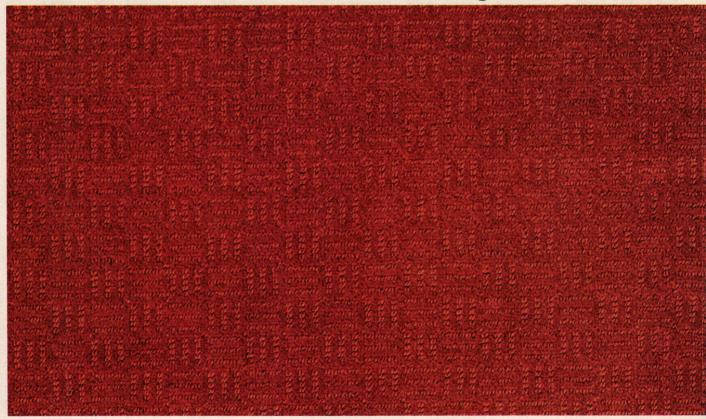
Most of the pavers shown are available as squares, hexagons and rectangles. Compressive strength 10,500 psi. Maximum average absorption Rate 4%. Minimum average freeze-thaw cycles 100 minimum. Size and distortion tolerance and color variations on pavers will meet ASTM Designation C-216, Type FBS.



WHITACRE-GREER
WAYNESBURG, OHIO 44688

Now you 256 Ways:

The running line "Architecturale"



Here's a custom-design program

for people who don't necessarily need a couple of acres of carpet. Karastan's exciting "Designers' Choice Collection" gives you the choice of 16 handsome cut-and-looped woven textured patterns in 16 different colors. That's 256 combinations. And you need order a minimum of only 300 square yards. That's about enough to carpet a small suite of offices, a small motor inn, a bank

lobby, a restaurant, a retail shop or the corridors and lobby of a low-rise apartment house.

For one of the patterns in the collection no minimums are required at all. Called "Architecturale," this small-scale basket-weave design is available as an in-stock running line. Any size order will be taken. Typically Karastan, Architecturale is Kara-loc woven with a dense face of 100% Antron nylon, the advanced soil-hiding fiber, plus static-control yarns.

canhaveit

Karastan changes the nature of contract carpet with the DESIGNERS' CHOICE collection

plus 15 other patterns in 16 colors



For a unique richness of color, the pile-yarns are skein-dyed too. The other 15 patterns in the collection are made to the same specifications as Architecturale. As we said, these patterns require 300 square yard minimums. However, there are NO MAXIMUMS. If you need acres of carpet, we can weave acres. In fact, if you need 1,000 or more square yards, Karastan will dye the carpet in ANY color you choose. Now, that's giving designers a choice!



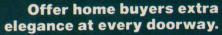
the public carpet

A Division of Fieldcrest Mills, Inc./919 Third Ave./New York, N.Y. 10022

For more data, circle 15 on inquiry card



For more data, circle 63 on inquiry card



Caradco's Interior Sculptured Doors are the decorator focal point in every room in the home. And they give better performance than panel doors at a moderate price.

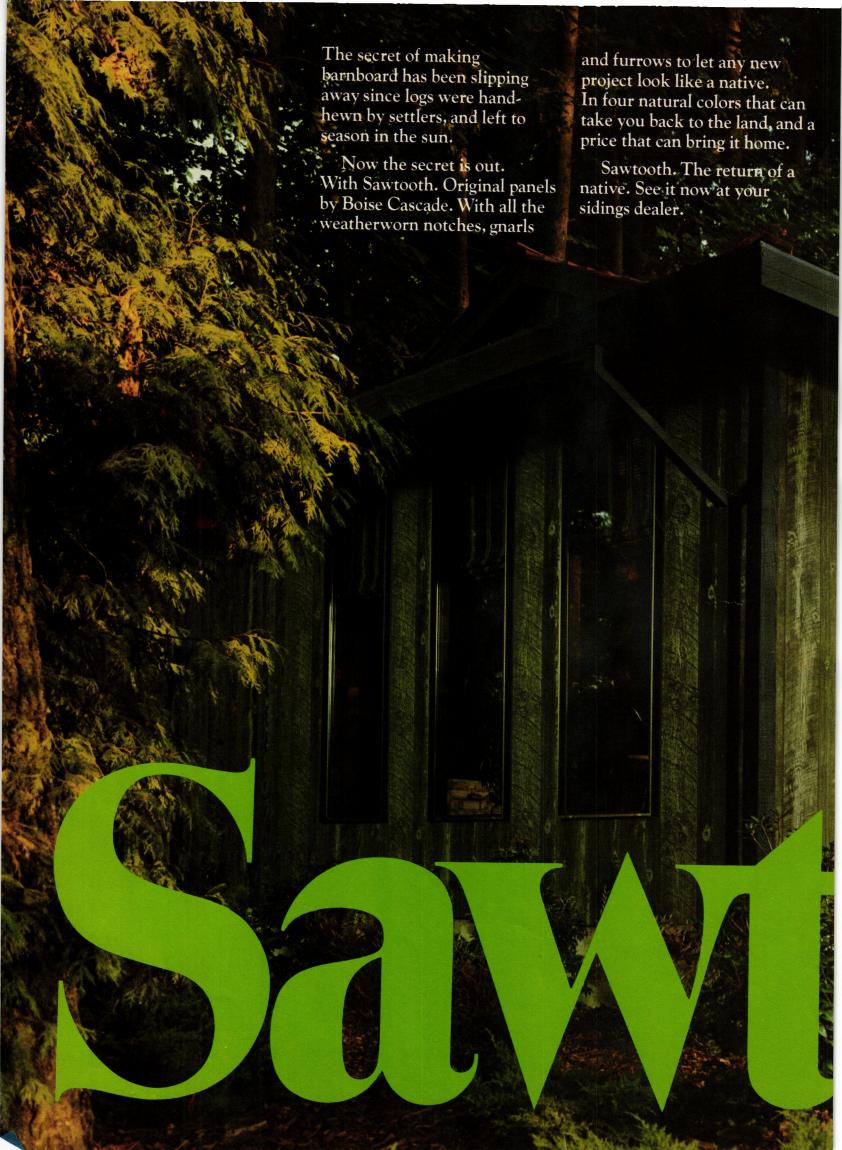
Caradco's Interior Sculptured Doors have the look of luxury that goes so beautifully with the fine furniture look your buyers want. Deep, clean carved panels are fashioned from one-piece, wood-grained, molded faces that won't split, check, shrink or show paint lines.

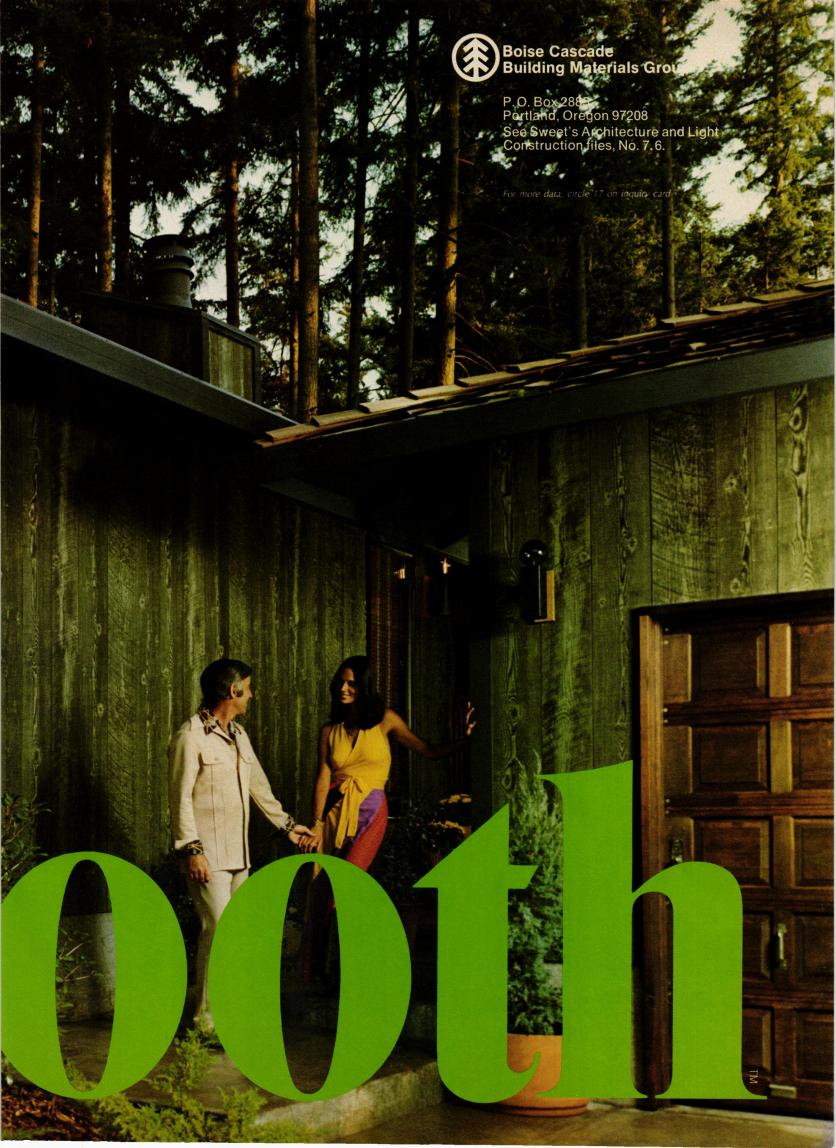
And Caradco does the entire manufacturing job, right up to the factory-prime on all doors. Makes final finishing especially easy, whatever the choice of finishes. You know the completed door will have a true decorator look.

Ask your Caradco distributor about his complete line. It's really your doorway to greater sales opportunity.



Saves energy naturally Caradco Window and Door Division Scovill





montgomery **SPM**® elevator packages solve cost and delivery problems throughout North America

Montgomery SPM elevator packages are Standard Pre-Manufactured complete units specifically designed for quick delivery and speedy installation in order to save you time and money. Standard pre-manufacturing means shipping from inventory. Standard pre-manufacturing means reduced elevator and installation costs. Fast delivery. Reduced costs. Montgomery custom quality.

SPM elevators are available as traction (hoist rope)

packages for medium-rise buildings and oil hydraulic (plunger) packages for low-rise buildings. SPM packages are a part of Montgomery's Total Capability in design, manufacturing, installation and maintenance of elevator, escalator, Power Walk and Power Ramp Systems throughout North America.

Contact your nearest Montgomery office – we're not very far from anywhere in North America.

montgomery moves people



Montgomery Elevator Company, Moline, Illinois 61265 Montgomery Elevator Co. Limited, Toronto, Ontarto M98855 Offices in Principal Cities of North America

We interrupt this advertisement for a commercial break. RISTOCON®

Aristocon goes commercial. Now there's an alternate solution to the disadvantages of tile, parquet and carpeting in commercial flooring. Disadvantages such as seams, staining, soil buildup and maintenance.

You deserve a commercial break. And now you have it with Aristocon.

Aristocon brings to the commercial establishment the qualities that made it so successful in the home.

Aristocon is beautiful enough to dress up any shop, business or office. Tough enough to handle the traffic, spills and scuffs it must face every day.

One reason Aristocon can take the hard knocks is its exclusive no-wax JT88® wear layer. A wear layer so stain-resistant it protects against damage by iodine, alcohol, mustard, shoe polish, lipstick, hair coloring.

And, unlike other so-called nowax floorings, Aristocon won't need a redressing. In fact, just normal cleaning and occasional power buffing restore its original lustre.

When you specify Aristocon for commercial applications, you know you're getting a hard-working beauty. One with the convenience of 6 and 12-foot widths for few seams.

The Aristocon alternative. Beautiful. Tough. And easy on your pocketbook.

See us in Sweet's Light Construction File or write for free sample and architectural folio.

Mannington Mills, Inc., Dept. A76, Salem, N.J. 08079. Over 60 years of fine flooring. Others by Wellco Carpet Corp., Calhoun, Ga., a wholly owned subsidiary.



The Tectum environment: warm, quiet, hospitable.

Sounds like a nice place to live and work? It is. That's why successful builders are using this remarkable structural wood fiber product as roof deck, modular wall

units, interior panels and partitions.



Tectum keeps the indoors in, the outdoors out.

Tectum® paneling is made of long wood fibers bonded in a special process with an exclusive, inorganic binder. These panels are lighter than other similar products in this field, come in a wide range of standard sizes and are easily installed with ordinary hand tools.



Don't like the way things look? Change them.

Tectum is ideal for remodeling commercial or residential interiors. It's a good insulator, provides a tough, impact-resistant surface, comes in a variety of sizes and thicknesses and works as wall or ceiling panels. Tectum can be spray-painted any color with an alkali-stable flat latex paint without affecting the acoustical properties.



Tectum stays on top of things.

A variation of regular Tectum, called Tectum II, is an unusually effective insulation material with an integral layer of urethane insulation. Tectum II® is used in roofing systems and as wall panels.



Tectum revives a lost artsilence.

Tectum is the answer to a variety of sound control problems. Depending on thickness, it can achieve noise reduction coefficients of from .45 to .75. For more information, write Gold Bond Building Products, Division of National Gypsum Company, Dept. RH-56T, Buffalo, New York 14225.

We're gypsum, and then some.



For more data, circle 20 on inquiry card





Three of our designer series outdoor luminaires.
For a glowing account of all of the Landmark lights,
write for our new Architectural Series catalog.
ITT Landmark Lighting, Box 100, Southaven, MS 38671.

Landmark Lighting TTT

It's a beautiful way to save energy!

More and more architects are specifying McQuay's Hi-Line SEASONAIRE® heat-recovery unit. Here's why:



- Very efficient water-to-air heat pump cools/heats year-round, also helps pay the energy bill by recovering the heat generated in any area of the building and transferring the heat to areas that need it.
- 2. Each unit can be individually metered with the tenant paying his own energy costs.
- 3. Lots of design options! Units can be located away from an outside wall to form a curtain cove. Or built into a room divider. Or easily concealed in a corner. Or built into an interior wall to serve two or more rooms. Or furnished with a finished cabinet for exposed mounting.
- 4 Quiet operation results from sound enclosures around the compres-

- sor, and from draw-through coil design that muffles fan noise—and keeps building tenants happier.
- 5. Very versatile, too: Units don't protrude through walls to the outside. No need for holes in outside walls—and no money spent making the holes. No need for louvers, either, to cramp your design or clash with the aesthetic integrity of the building. You can use a variety of treatments, and the compact, slender lines of the Hiline unit are very easy to work with.
- 6 Simplify your design: Units can be stacked—one over the other, floor by floor. Overall labor can be reduced 25% and installed cost reduced 15% or more. The slip couplings provided eliminate pipe cutting.

- If one unit fails to function, the entire building is not shut down. Only the space served by the out of service unit.
- Air-handling equipment rooms are eliminated. Boiler and cooling equipment rooms are smaller or unnecessary.
- **9.** Ductwork and suspended or furred-in ceilings aren't necessary.
- 10. Chassis is easily removed and replaced. If repairs are needed, a spare chassis can be installed and the defective unit repaired at the shop.
- 11. For aesthetics and improved control, factory-installed thermostat is self-contained within cabinet, with sensor in return-air for quick measurement and fast response.



P.O. BOX 1551, MINNEAPOLIS, MN 55440

Classic windows:
The handsome and
practical bow
They're option glazing, a

Marvin Windows

bow windows, but we do some things that make it extremely easy to execute an outstanding bow. For instance, we offer 24 different bows, from small to very large in standard casement and Casemaster styles. We ship them set up and ready to go into the opening. They're available with a lot of different options, including prefinishing, triple glazing, and divided lites. The materials and the workmanship in Marvin bows must be seen to be appreciated. Inspect one and see just how well a window

Marvin isn't the only manufacturer able to build beautiful

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can be built. We'll be glad to send literature. Marvin Windows, Warroad,

MN 56763. Phone: 218-386-1430.



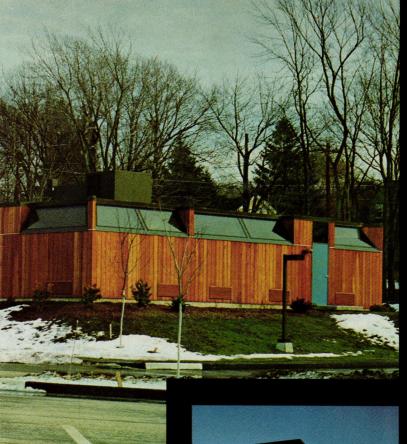




Reduvood Plywood



Nob Hill Condominiums-Hauppage, New York • Arch.: John A. Jacobsen and Associates • Sponsor & Builder: The Campagna Development Corporation









...its beauty is more than skin deep.

Visual appeal is clearly the principal reason for selecting redwood plywood as a building material. The warm beauty and rich color of its surface enhance the structure itself and its physical setting.

But redwood plywood also offers the architect and builder many practical advantages and economies.

It is durable. Redwood plywood is naturally resistant to weather, and protected with both a waterproof bond and a special water-repellent preservative.

It is fire-resistant. Redwood plywood, in %" thickness, has earned a low flame-spread rating that qualifies it for all Class II uses in the Uniform Building Code.

Maintenance is minimal. Redwood plywood will take and hold a wide variety of finishes, or weather beautifully when left unfinished.

It conserves energy in heating and cooling. Like other forest products, redwood plywood affords high insulation value, requires less fuel to maintain comfortable yearround temperatures.

Construction is simplified. Because of redwood plywood's cross-laminated strength, it can be applied directly to studs without diagonal bracing. No building paper is required with shiplapped or battened joints. And redwood plywood comes not only in standard 4 x 8 panels, but in 4 x 9 and 4x10 sizes as well, to facilitate modular design.

Many patterns are available. Choose from plain, grooved and inverted batten designs, in solid-color heartwood or sapwood-streaked faces. All suitable for interior or exterior use-all textured for rich surface interest.

Current examples of redwood plywood applications are shown in the accompanying photographs. For data on specifying redwood plywood, see the Redwood Plywood Guide in Sweet's or write us at Department P.

M CALIFORNIA REDWOOD

 $Redwood-a\ renewable\ resource$ ASSOCIATION 617 Montgomery Street, San Francisco, CA 94111



Delta Scald-Guard. With a new safety feature at your finger tip.



It's the exclusive HOT-STOP BUTTON.™ The latest safety innovation for Delta's patented Scald-Guard bath valves. Here's how it works.

As with all Scald-Guard faucets, you can't turn on hot water without first turning on cold.

And when you rotate the handle into a position that delivers about one-half hot, the HOT-STOP

BUTTON prevents you from going further. If hotter water is desired, the button must be fully depressed before the handle will rotate into higher temperature areas.

This means greater protection against acci-

dental discharge of extremely hot water.

An optional pressure balance mechanism maintains constant temperature even when simultaneous use of other water appliances causes sudden pressure changes. It simply senses the change and adjusts to maintain the mix of hot and cold water

the user originally set.

As with all Scald-Guard, our newest models are available with a special "reverse valve" for safe back-to-back installation. This saves time and money

by eliminating costly, cumbersome cross-piping. Write for our free catalog. And watch for our commercials on TV, preselling prospects today who will be customers tomorrow.

You Can Believe In Delta & Delex Washerless **Faucets**

Delta Faucet Company, Dept. 82, Greensburg, Indiana 47240. A Division of Masco Corporation of Indiana. © 1976 Copyright. Masco Corporation of Indiana.

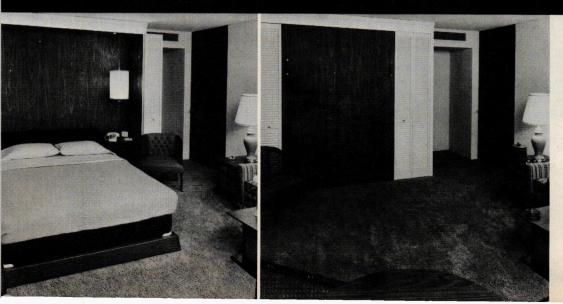
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Imagine how much extra, usable floor space there would be in the world



if all the beds got up in the morning like you do.

SICO® Wall Beds—when floor space that is used at night for sleeping, is needed for better things by day.



FREE CATALOG! For complete information on the bed that gets up in the morning like you do, fill in the coupon and mail today!

NAME

TITLE

STREET

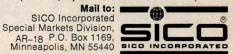
COMPANY

ZIP

PHONE

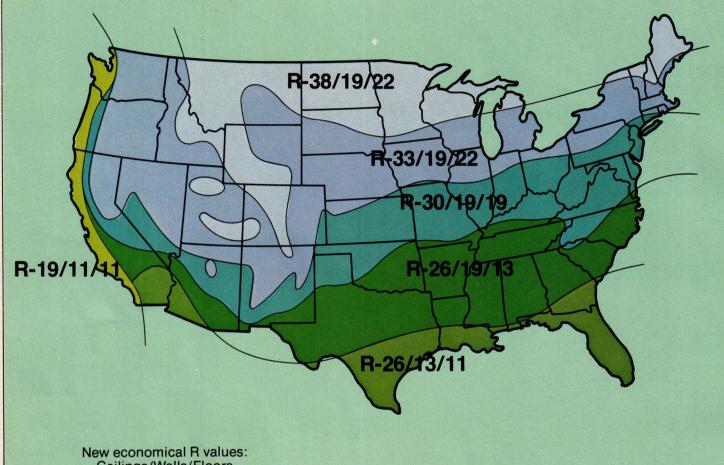
(Your inquiry answered within 24 hours.)

Mail to: SICO Incorporated



Phone: (612) 941-1700 Cable: WILSICO For more data, circle 26 on inquiry card

Here are the new economical levels of insulation recommended by Owens-Corning for six U.S. climatic zones



Ceilings/Walls/Floors

Insulation is

Today's home buyer knows

Today's skyrocketing prices for oil, natural gas, and electricity have turned home building into a whole new ball game.

Suddenly, an extra few hundred dollars' worth of insulation can mean a saving of up to thousands of dollars on heating and air-conditioning bills over the lifetime of a house. And

Energy-Per-Month cost (EPM) is fast becoming the second biggest home selling feature, next to price itself.

Economical levels

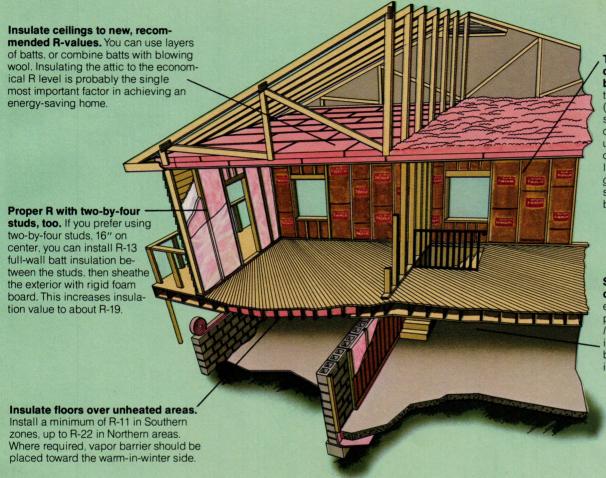
Above you see Owens-Corning's recommendations for totally new economical levels of insulation—for the era of high-cost energy.

How did we arrive at these numbers? Very carefully.

Months of computer analyses were performed, using data from degree days and cooling hours in 71 cities to insulation costs, present energy costs, projected energy costs and investment criteria. The result? Recommendations representing a

*T.M. Reg. O.-C.F.

Here are some practical ways of achieving these new recommended levels of insulation and of providing more affordable housing



Two-by-SIX studs, 24" on center-cuts framing lumber by 30 percent! Thicker walls, to hold thicker insulation (R-19 batts), give needed strength with less lumber, often at less cost, than the usual two-by-four studs, 16" on center. Also, you can use lumber of less expensive grade, and two-by-THREE studs for interior non-loadbearing partitions.

Save money on smallercapacity equipment. An energy-tight house often permits you to specify smaller, less costly heating and cooling equipment. When possible, position it centrally for increased efficiency.

cheaper than oil.

t, and he expects you to know it, too!

balance between the cost of any added insulation and the value of energy it saves. Guidelines to the economical amounts of insulation for ceilings, walls and floors in each area.

Translating R's into inches

The new recommendations are averages for each zone, expressed in "R's"—the resistance an insulating material offers to the passage of heat. The R values for ceiling insulation translate to about 12" (R-38) of Fiberglas* building insulation in a Northern city like Minneapolis to about 8" (R-26) in most of the Southern states. And a full 6" (R-19) batt, even for the balmy West Coast.

The diagram above gives valuable tips on how to build energytight homes without driving costs through the roof.

For details, and sales aids to help you turn your energy-saving houses into sales faster, write: P.A. Meeks, Owens-Corning Fiberglas Corp., Fiberglas Tower, Toledo, Ohio 43659.

Owens-Corning is Fiberglas FIBERGLAS



For more data, circle 27 on inquiry card



Pushing a button costs 30% less than pushing a pencil.

As much as 20% to 30% of the typical architectural drafting job can be repetitive. Repeated floor plans. Repeated columns. Repeated elevation details. Cut your production costs by doing repetitive drafting at the push of a button with the A. B. Dick Design Master™ camera, and you'll put far fewer draftsman hours into each completed project.

It's a drafting tool anyone can use.

No need for a special operator. Or a special darkroom.

The A. B. Dick Design Master camera takes little more space than a drafting table. And it can cost only about \$200 a month—roughly one-third as much as conventional photodrafting equipment.

Change drawing scale with the turn of a dial.

You can make an exact one-to-one copy. Enlarge a drawing up to 120%. Or reduce it as much as 45%. So

it's easy to make scaled-down site plan worksheets from your original building floor plans.

See how much repetitive jobs are costing you. ABDICK Just mail this coupon to: A. B. Dick Company 5700 West Touhy Avenue Chicago, IL 60648 Send me your free bulletin on reprodrafting techniques. Tell me more about the Cutting Production Costs laboratories sponsored by the Continuing Education Department of the AIA. Name Title Company Address City State Zip



Imagination like yours needs ingenuity like ours.

Consider no plan impractical until you talk with a Trus Joist field consultant. He's got the inside story on the greatest design flexibility, best strength-to-weight ratios, the most precisely-engineered profiles in the business. He's qualified to offer sound engineering advice.

Our typical openwebbed designs deliver unsupported spans up to 70 feet. Got an eye for the unusual? That's business-asusual for us: We'll come up with all the right joists for your job — curves and crescents if necessary, or ingenious new roof and floor structures.

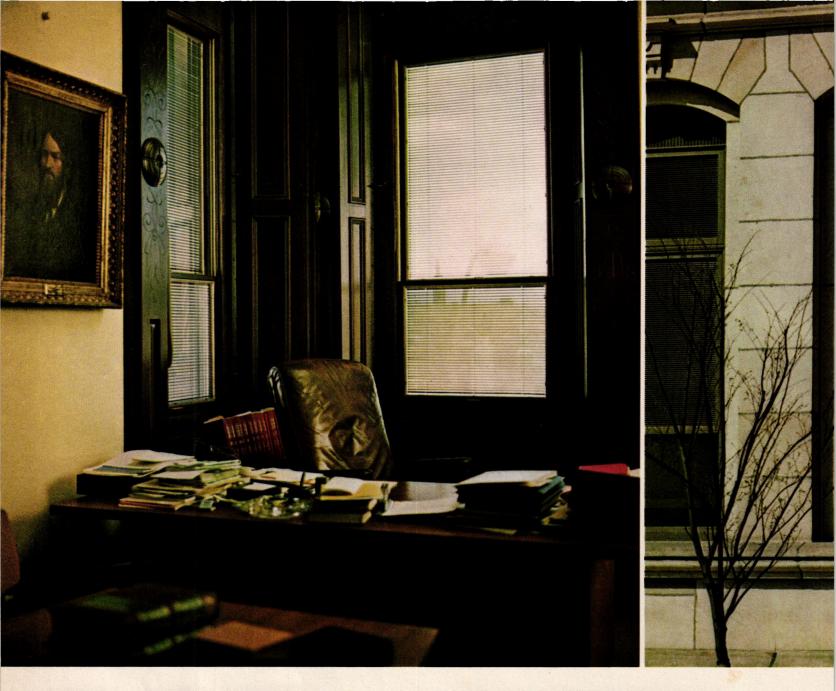
Individual computer design assures exactness.
On-time delivery saves on-

site exasperation. When you want a job done right, call up some modern technology. Call your local Trus Joist field consultant, and take a load off your mind

Specify Trus Joist. We've got our system down to a science.

For more data, circle 29 on inquiry card





Inside, there's the warmth and beauty of our traditional wood window.

For years, wood windows have been appreciated for their warmth. In appearance. And in their natural ability to provide good insulating properties. So when we developed the cladding system for our wood windows, we were very careful about leaving both of those qualities intact. Viewed from



inside the building, all of the surfaces that were meant to be wood are still wood. The exterior aluminum skin is not visible anywhere on the inside of the window. And because the skin does not penetrate the frame or the sash (a), the insulating qualities of the wood are not disturbed.

In between, a number of unique options for controlling the environment and associated costs.

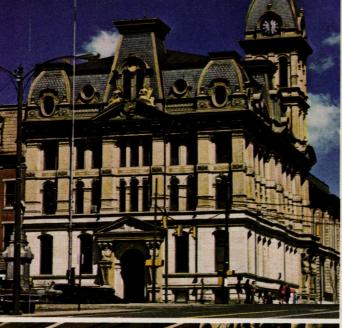
The removable inside storm panel in our optional Double Glazing System gives you a number of other valuable options. Like using our Slimshade® (b) to control sunlight, privacy and solar heat gain and loss. Housed between the panes, this fully adjustable blind remains virtually dust-free. The Double



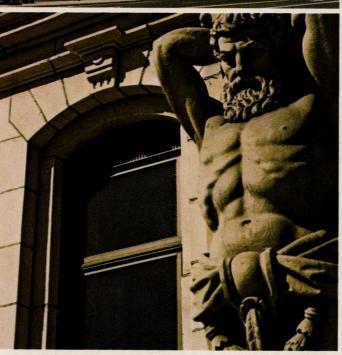
Glazing System also accommodates our snap-in muntins and privacy panels. But mere flexibility is not its only saving grace. The 13/16" air space between the panes does a better job of insulating than ordinary welded insulating glass. And at a lower cost per window.

This Pella Clad window system combines modern convenience with traditional values, in the recently restored Wayne County Courthouse.











Outside, an acrylic coated aluminum finish that reduces maintenance without reducing your choice of colors.

In the Pella Clad window system, all exterior wood surfaces are sealed off from the weather and other atmospheric contaminants by an acrylic coated aluminum skin. An outside finish that has earned its reputation for durability. And one which is available on our Contemporary and Traditional

Double-Hung, Casement, Awning, Fixed and Trapezoidal Windows, Pella Clad Frames, and Pella Sliding Glass Doors. In Dark Bronze, Dark Brown, White (c) and eight special colors. With sizes in each to accommodate a wide variety of design and building requirements.

Afterward, the ease and economy of washing the outside of a ventilating window from the inside.

Window cleaning is another maintenance factor which deserves consideration. And Pella Windows have something to offer in this area also. All of our ventilating units can be cleaned, easily, from the inside. The Pella Double-Hung Window has a spring-loaded, vinyl jamb liner which allows the sash to pivot

fully. And because each sash pivots at its center point (d), the weight of the sash is counterbalanced. Which makes the job just that much easier. Reglazing can also be accomplished from the inside. along with sash removal. And the same thing is true of our casement and awning windows.

(d)



(c)

For more detailed information, send for your free copy of our 6-page, full-color brochure on Pella Windows in Renovation. See us in Sweet's Architectural File. Call Sweet's BUY-LINE number or look in the Yellow Pages, under "windows", for the phone number of your Pella Distributor.



Please send me your 6-page	e brochure on Pella Windows in Renovation. I ai	m
specifically interested in:	Double-Hung Windows, Casement Windows	S.
☐ Awning Windows, ☐ Slidi	ing Glass Doors, Wood Folding Doors.	

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Mastin Associates, Inc. Architects

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RECORD HOSES OF 1976

The owners of houses like those in this issue are special people. Their numbers alone make them special for they belong to a still small but growing number of Americans who have decided to build instead of buy.

Who are they? Beyond the crude research that has fixed their average age, family size and median incomes, they tend to be people educated in the humanities or the arts. Many enjoy successful careers in business or the professions and are, therefore, people accustomed to shaping and ordering their own lives to an unusual extent. Some of them, it might be added, chafe just a little within limits set by others.

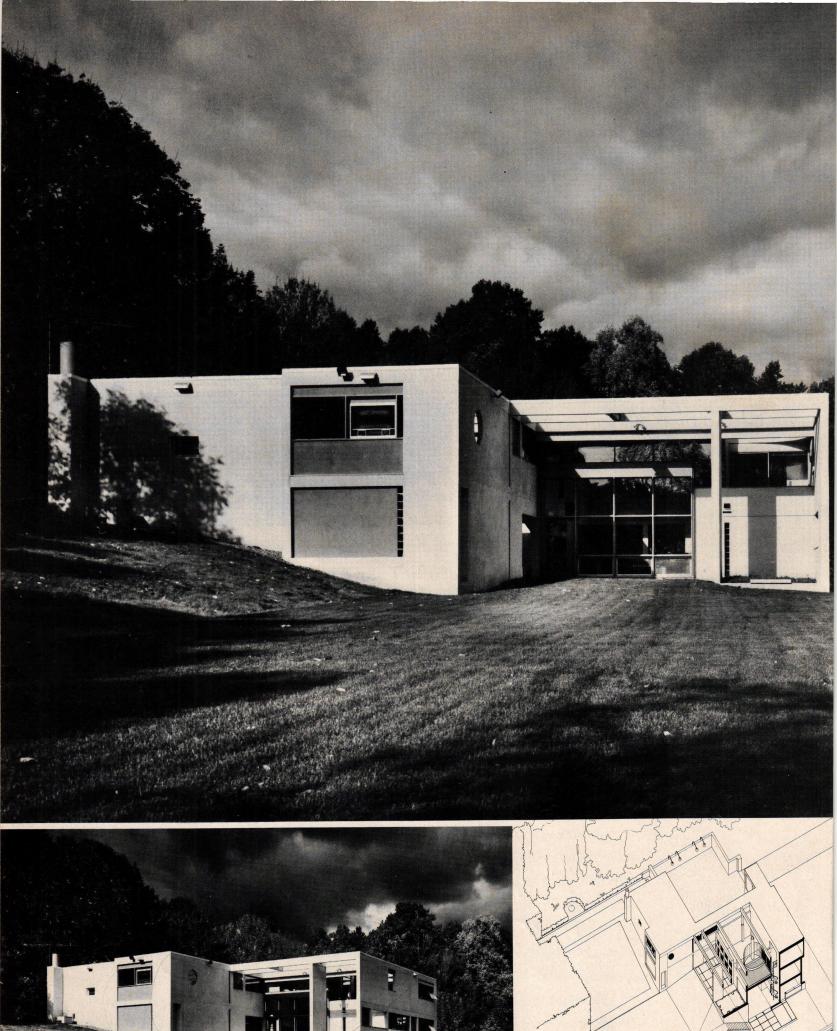
To most of them, the idea of "home" or "their own place" has high priority—higher, for instance, than travel or similar activities that might otherwise absorb their interest, energy and income. They are apt to be generous in their social instincts, enjoy entertaining, and are actively engaged in the affairs of the communities in which they have built. And, yes, there is probably just a little of the Egyptian in most of them who, when they build, give expression to an urge that goes straight back to the Pharaohs—or even earlier.

They are not necessarily members of the plutocracy. For some it may be the single great wish-fulfillment of their lives and they are willing to risk a good deal to get the quality housing they want—and that the gifted architect can provide.

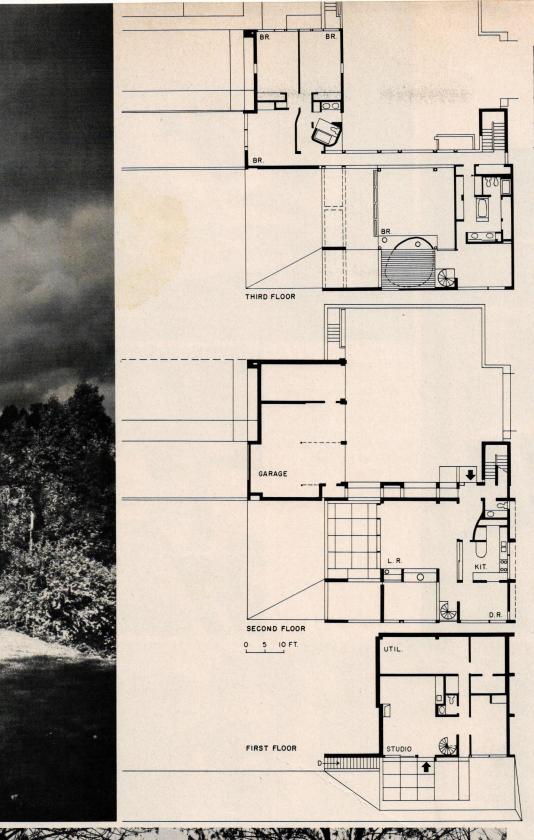
Some came to their architects with pieces of unimproved property they already owned and to which they were deeply attached. For these there was no real alternative but to build. Others, however, came only after scouring the market of builder houses and old Victorians and—finding nothing suitable—build as "a last resort." Either way, they opted for a quality and degree of personalization only achievable when the architect and client join together in an extraordinary act of self-expression.

Who are these owners? They are special people who strive to see beyond the foreground of what *is* toward the horizon of what *might be.* RECORD is pleased to be able to publish their visions of what *might be* and to recognize their accomplishments—and their architects' accomplishments

—with design award certificates.—*Barclay Gordon*









CHIMACOFF/PETERSON: NEW PROGRAM AND A

FOR AN EARLIER CLIENT

VERY DIFFERENT SITE

The Peter Lowensteins are a couple who built their second house first. The earlier residence, a Montauk vacation house and a RECORD HOUSE of 1973, was designed by the same architects. The house shown here is a year-round residence in Morristown, New Jersey, but since the two houses are for the same owner and share several conceptual roots, comparison is interesting. Both houses, for instance, are discrete elements in the landscape, not intended to blend-either in form or in material-with their sites. In each, the outside walls, often expressed as screens, extend out beyond enclosure into the site. And in both houses, the usable outdoor areas are integral to the spatial development of the houses. Here, the entrance courtyard, which serves as a foyer for the whole house, links directly to the main entry or, less directly, to the lawn and private garden beyond. The house is not "frontal," offering instead a variety of elevations to the various parts of the site.

The spaces inside are exceptionally orderly. The living room (overleaf) is a beautifully organized, double-height volume that opens to an inviting terrace. The fireplace, sitting in a little building of its own, artfully expresses the "box-within-the-box" theme. Beyond the fireplace enclosure is the upper portion of a small study, and above that a roof deck that admits light through a free-curve opening overhead.

This very expressive and elegant house is built in load-bearing concrete block with four steelpipe columns in the living room. The first floor is finished in slate, the second is carpeted.

All levels of this three-story house have direct access to grade owing to carefully planned, builtup site contours.





Architects: Chimacoff/Peterson 134 Nassau Street Princeton, New Jersey Owners: Mr. & Mrs. Peter Lowenstein Location: Morristown, New Jersey Engineers:

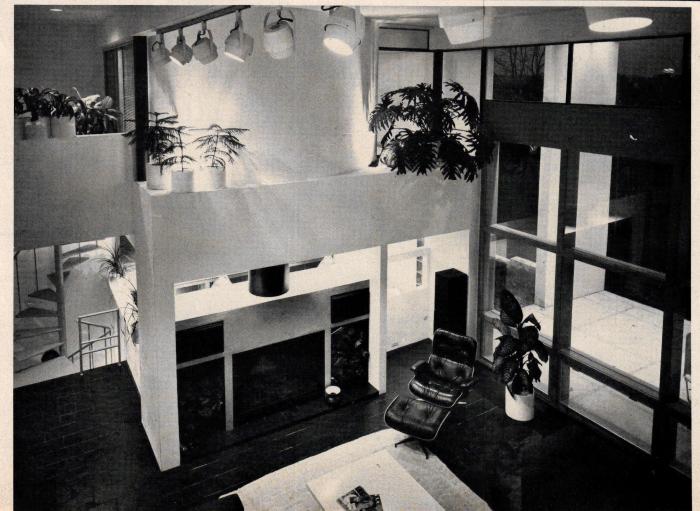
Weiner and Thaler (structural) Philip Fritz & Sons (mechanical) Contractor: Maw and McKinnel Photographer: Norman McGrath





The clearest suggestion of the spatial organization of the Lowenstein house is apparent in the photo below. The spiral stair descends to the lower level where it meets grade on the downhill site. The upper level contains master bedroom and bath (photos above and left).







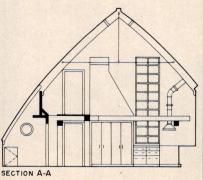
WIERDSMA HOUSE BY LOUIS MACKALL

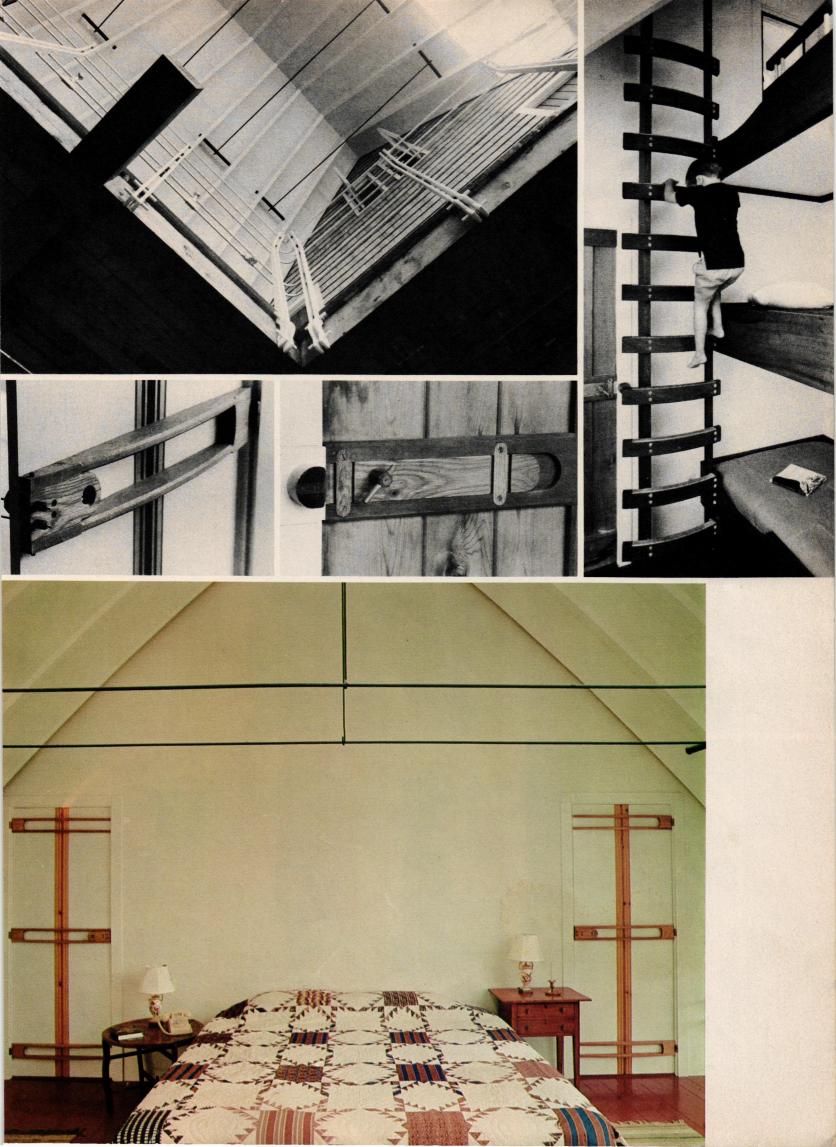


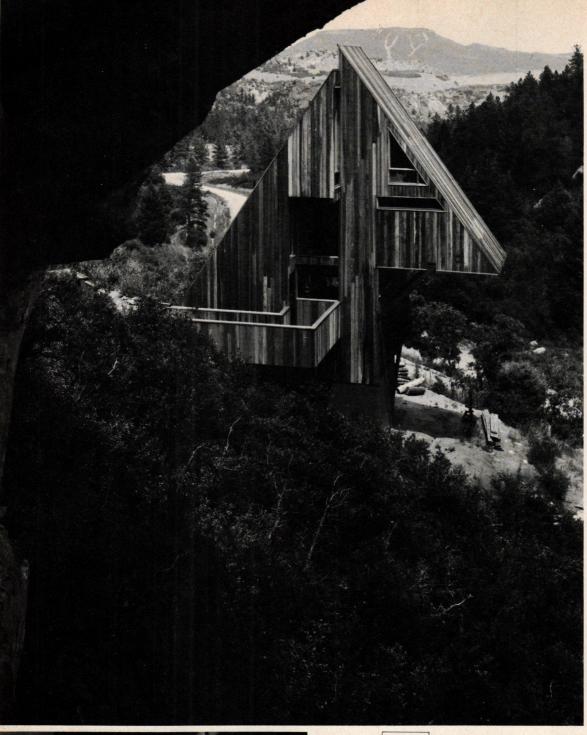




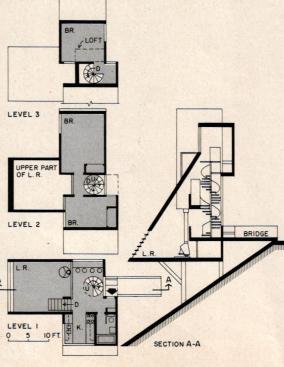
The ten-by-ten oak network pierces the walls, enhancing the sense of wood enclosure in the two-story kitchen, left, which is finished in teak: teak-faced counters and drawers with brass inlay on either side of the range. A brass oval inlaid in the counter is provided for setting down hot skillets. The round table for six is in teak segments, with a segmented center rotating section, and a brass inlay in its center. A barber's chair pedestal supports the table, allowing height variation to accommodate adults or the four younger Wierdsmas. The eye floats up to the balcony, railed in by white electrical conduit that serves also to light the areas above and below with barereflector floods. The skylight, photo upper left, follows the bowed roof with sheets of glass stepping down; the joints are ship-lapped. Each tread of the living room stair-ladder, above, is a version of the inverted kingpost truss in tension. The child's ladder, upper right, was designed by the architect and built by the owner, John Wierdsma. Three oak crosspieces stiffen the pine doors, right, and the middle crosspiece, shown, includes hardware. To open, one pulls on the wood tongue.











BOLDLY INTERSECTING, TRIANGULAR FORMS IN A COLORADO CABIN BY ARLEY RINEHART

The majestic site and the minimal support conditions it afforded were prime determinants in the design of this Colorado mountain cabin. Four 16-inch diameter caissons, each anchored eight feet into bedrock, support a central wedge form that houses the main living area. Steel braces from these caissons pick up the roof loads and floor cantilevers of the two satellite wedge forms. This family of interlocking elements creates a lively and intricate geometry—a theme playfully developed by triangular window openings-but the use of a single exterior finish material-1- by 6-inch redwood siding on walls and roofs-gives the massing a welcome homogeneity. Adding to this unity is a constant roof slope of 3 on 2, which ends up in a volume of strongly vertical spatial development.

The cabin is structured of 2- by 6-inch studs sheathed on both sides with ½-inch plywood glued and nailed to form a stressed skin panel. The plywood, taped and painted white, is the primary interior finish material.

The exterior walls are sandwiched with six-inch batts of glass fiber, which give sufficient insulation to heat the entire cabin with electric baseboard heaters of 58,-000 Btu/hr capacity.

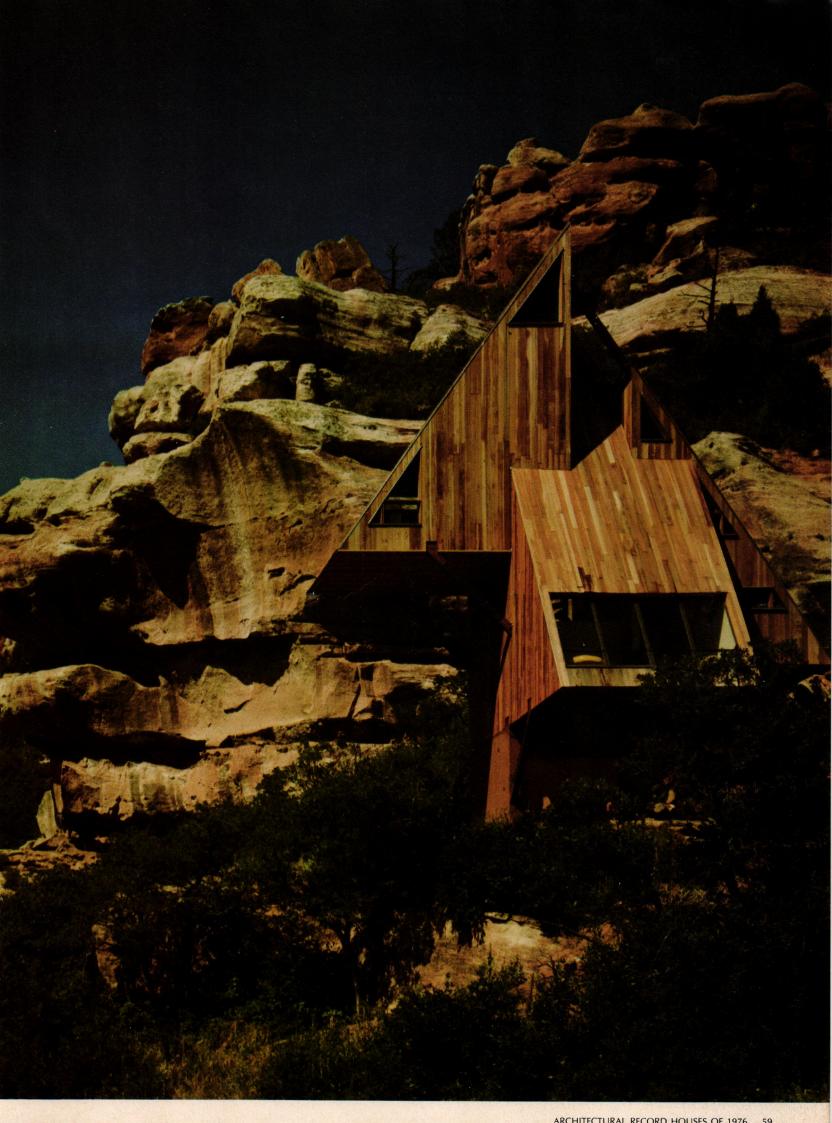
The owners asked that the cabin disturb the natural beauty of the site as little as possible. They got their wish—and a great deal more.



2345 Seventh Street
Denver, Colorado
Clients: Mr. and Mrs. Ben Collins
Present owners: Dr. and Mrs.
Nelson E. Mohler
Location: Perry Park, Colorado
Engineers:
Ron Frickel (structural)
J. J. Blank (mechanical)
R. W. Thompson (foundation)
Contractor: Ben Collins
Photographers: Richard Springgate,

Robert McConnell

Architects: Arley Rinehart Associates





LONG ISLAND HOUSE BY ALFREDO DE VIDO: A STUDY IN TEXTURES AND PLANAR FORMS

The site is a steep hill overlooking Long Island Sound. To reach the house, visitors approach up a mile-long driveway through fruit orchards and arrive under a portecochère that spans between the front door and the greenhouse (photo above).

The main entry opens to a generously proportioned hall that, extending upward the full height of the house, reveals its basic volumetric expression (photo overleaf). Dining room, living room, and guest room flow out from this central ground floor space. On the level above are four bedrooms, each carpeted and each with a handsome view.

The principal finish materials

are stone (found on the site) and cypress boards on the exterior: oak strip for interior walls and slate for floors on the grade. The roofing is built-up. Designed to function comfortably without airconditioning, the house is heated with hot water. Baseboard convectors of conventional design are used throughout.

To an unusual extent, the house was owner-built. Though the various trades were present on the site, the owner and his family put generous amounts of their own time and energy into construction—doing a little of everything as a labor of love from the beginning and for the five years it took to complete.

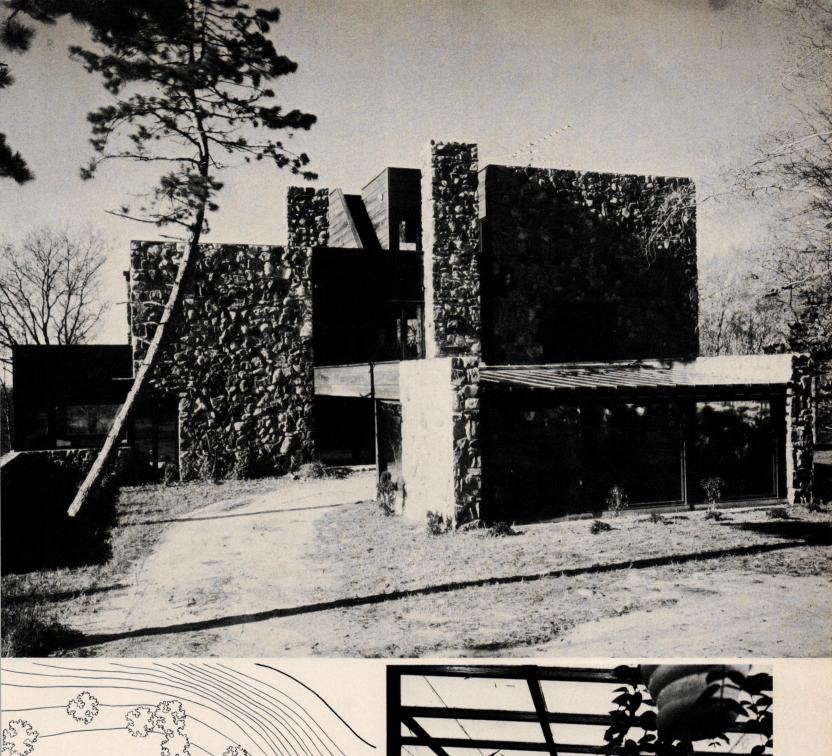
The massing and play of materials give the elevations a liveliness characteristic of De Vido's work. The greenhouse, for instance, crystalline against a background of stone, reaches out in a low horizontal thrust to anchor what might otherwise be an un-

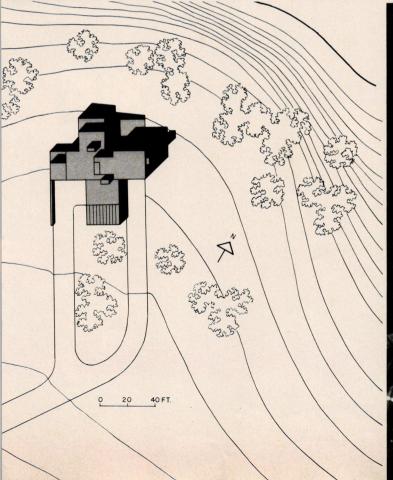
comfortably tall composition in stone. Long, low walls on two other elevations have much the same function as they extend out to form partial enclosures for outdoor spaces that face the several views.

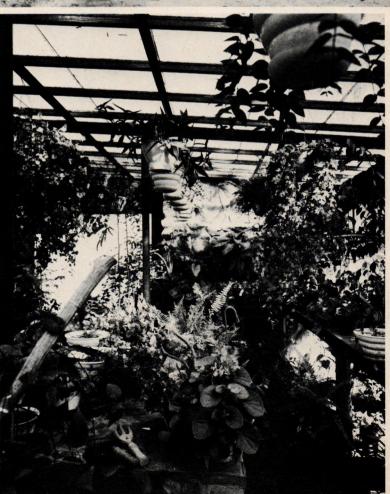
The play of stone and wood continues in the interiors producing an alternating series of soft and hard textures. The interior spaces are rather colorful and richly appointed with oriental rugs and furniture pieces—many of which, like the Barcelona chairs, are classics of contemporary design.



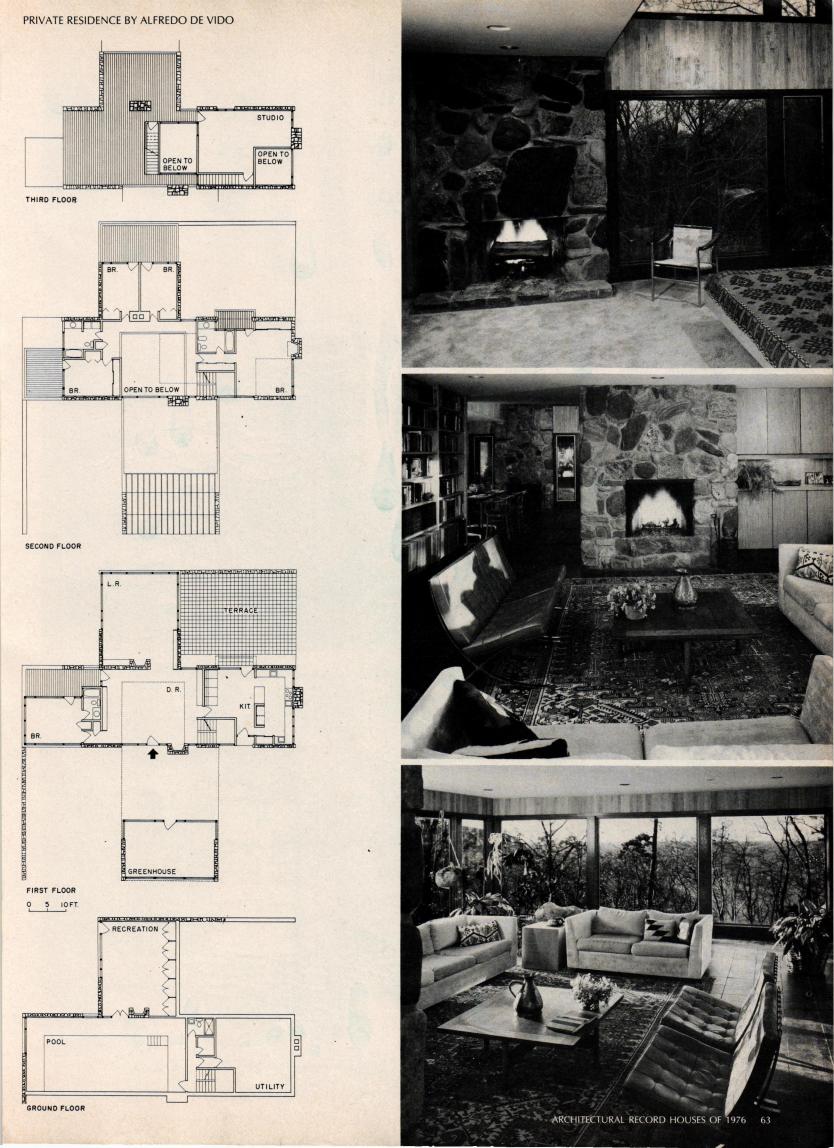
Architect: Alfredo De Vido 27 West 53rd Street New York, New York Private residence Location: Long Island, New York Engineer: Charles Thornton (structural) Photographer: Ernest Silva



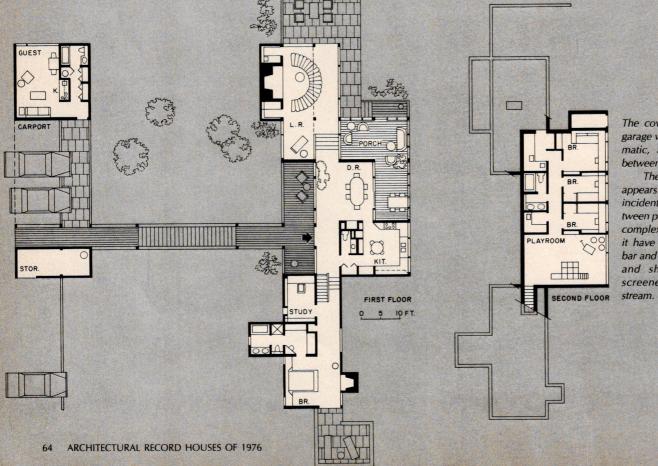












The covered stair, linking the garage with the house, is a dramatic, active element poised between two static elements.

The living room, which appears in plan to be a spatial incident along the route between patios, is actually a more complex space. Not only does it have built-in enclosures for bar and hi-fi; it has access to—and shares space with—a screened porch facing the stream.



MASSACHUSETTS HOUSE BY SMITH/YAUCH

SKILLFULLY ZONED

FOR INTERNAL PRIVACY

Stepping down the north slope of a Massachusetts hillside-a hillside dominated by groves of birch and a stream at its base—this carefully tailored vacation house was designed for a young couple with two pre-school-age children. To use the slope effectively required a substantial system of retaining walls, which extend beyond the house east and west to embrace small outdoor patios. These extensions, together with the structures on the upper level, anchor the design securely in three directions and, from every vantage point, make the house seem larger than

The long, linear plan of the house implies a horizontal zoning, which the architects achieved simply by introducing sliding doors at points along the gallery that make it possible to close off one or more areas of the house when not in use. Vertical zoning separates the parents' level from the children's level below. A guest room, with private kitchenette, is located next to the carport on the upper level offering guests an unusual—and sometimes welcome—degree of seclusion.

The framing is a modified post-and-beam system with 3-inch fir roof decking spanning the nine feet between beams. The exterior walls are cedar boards stained to a gray-white, interior partitions are %-inch plaster-board. Operable windows are casement or awning and all openings are double-glazed. Generous openings on the south side of the house assure sunlight in the interiors at all times of day and at all seasons.

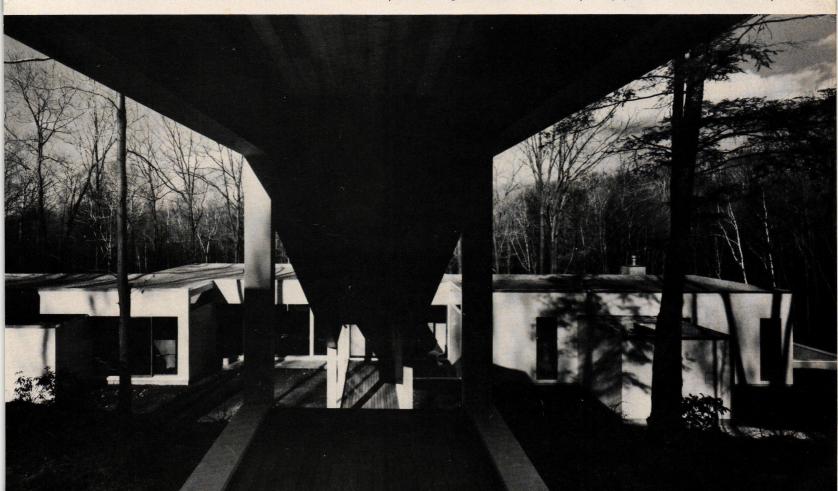
The areas around the house are seeded with grass, a decision that leaves little ambiguity between what is natural and what is designed. As the site is thickly wooded and had little in the way of view, the owners are opening a vista down to the stream that will be dammed to form a small pond. The remainder of the property will remain untouched.





Architects:
Melvin Smith/Noel Yauch
157 State Street
Brooklyn, New York
Private residence
Location: Northern Massachusetts
Engineers:

Antony Vairamides (structural) Lehr Associates (mechanical) George Maynard (site) Landscape architect: Matthew Tomich Contractor: Gordon Houldesworth Photographer: David Hirsch



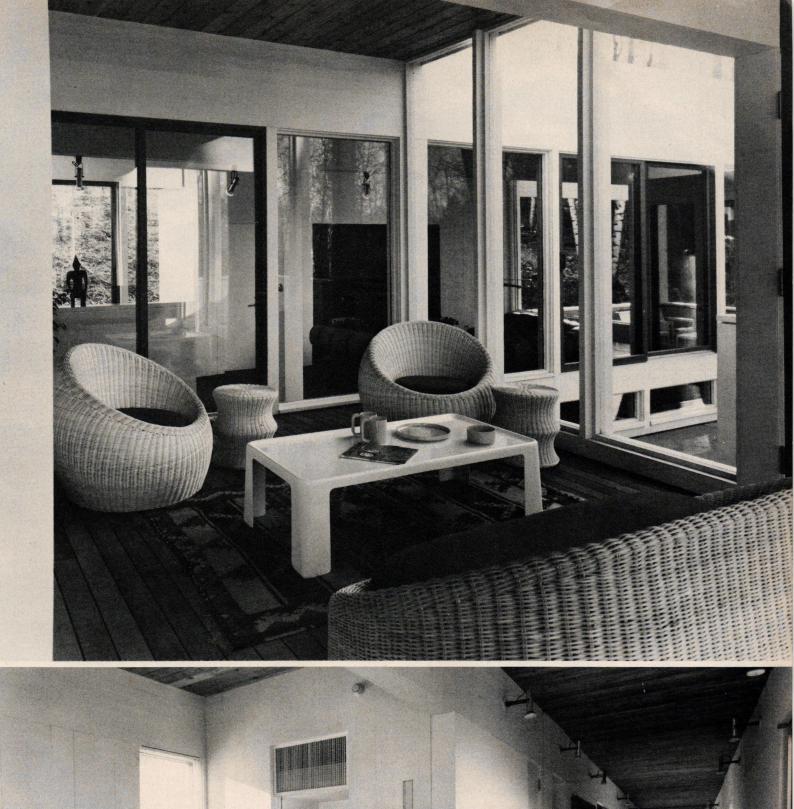


PRIVATE
RESIDENCE BY
MELVIN SMITH/NOEL YAUCH



Though the house is designed for heavy use in the summertime, only the master bedroom suite is air-conditioned. Breezes (with adequate crossventilation) do the rest.

The long gallery, photo opposite page, provides large areas for wall display. Because it is open at both ends and includes a substantial change of level, the gallery is spatially lively along its full length.







PAUL RUDOLPH'S DRAMATIC DESIGN FOR A SITE FACING LONG ISLAND SOUND

This extraordinary house—perhaps the most visually arresting residence that Rudolph has completed to date—is designed for a family with two grown sons and a daughter. The house rises from a gently-contoured waterfront site rich in tree cover and low growth.

The basic building element is a wood frame, cut and bolted into a seven-sided figure with rigid side walls set back from the edges of the frame. The enclosure that these elements create is doublecantilevered from heavy wood

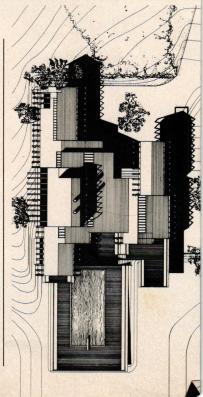
posts built up of 2- by 12-inch members. The more heavily-textured surface, used extensively both inside and out, is plywood with lath and a cementitious binder applied. Into this binder, while still wet, pebbles were set by trowel. The two materials are played against each other with virtuosity to create a planar/linear composition of unusual force. Like the Burroughs-Wellcome Headquarters (RECORD, June 1972) to which it bears a kinship both in forms and materials-and which was designed at about the same time—this house explores a rich variety of diagonal relationships. In, up, around and through, the space flows easily and almost without interruption.

Dramatic and sculptural in its intent? Certainly. Indulgent in its

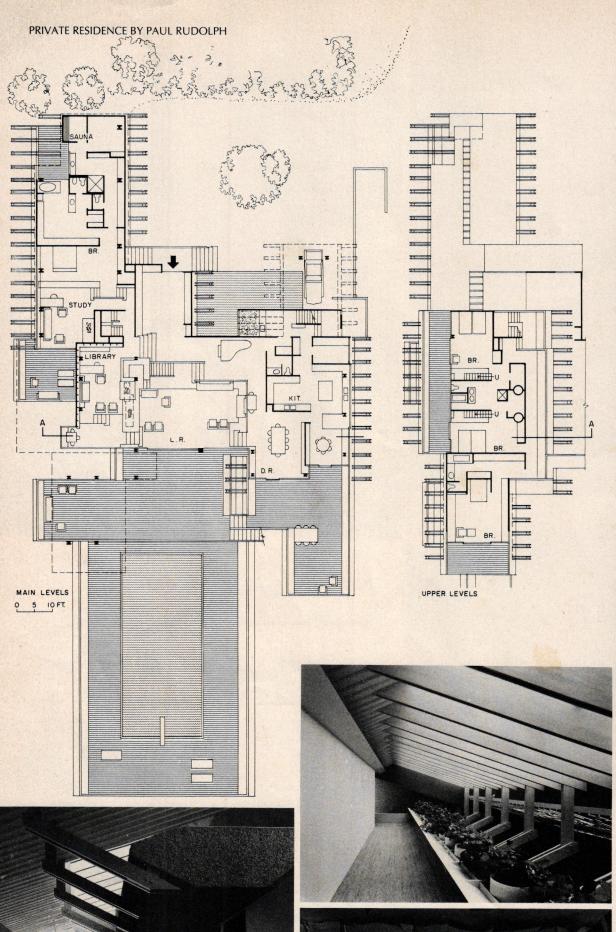
use of materials? Decidedly. Fervently. But accepted on its own terms, it is a magnificent construction, intuitive in its logic and full of ideas carried to a degree of development and elaboration not normally within the reach of residential designers.



Architect: Paul Rudolph project architects: John Harding Donald Luckenbill 54 West 57th Street New York, New York Private residence Location: New York State Engineers: Paul Gugliotta (structural) Contractor: Anderson Brothers Construction Photographer: Y. Futigawa

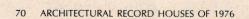








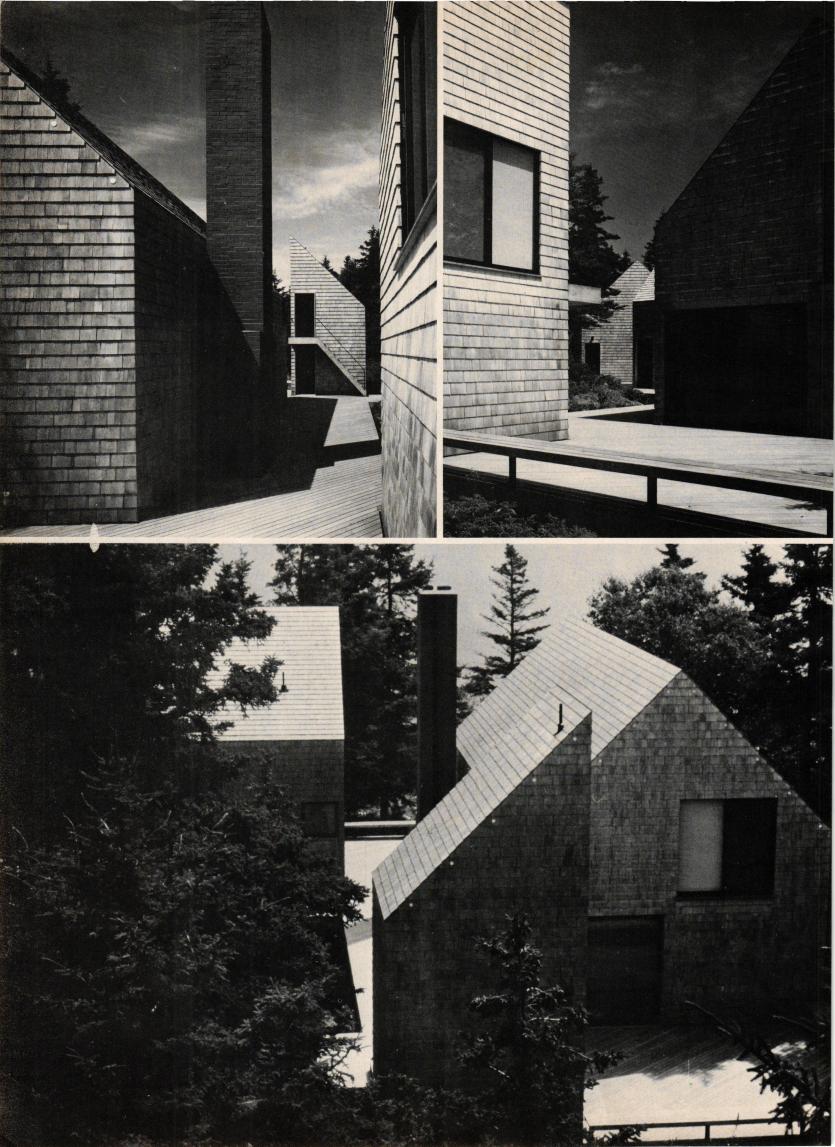












MODESTY, RESTRAINT

IN THIS MAINE HOUSE

BY EDWARD L. BARNES

Woven into a spruce grove on the Maine coast, this beautifully restrained vacation house was built for a man who is an author/ scholar, interested in public service. Among his wife's varied interests are calligraphy and cooking. Their children are grown and living away but often visit, bringing family or friends when they do. The program, therefore, suggested flexibility. The site suggested modesty.

Barnes began by developing four separate structures: a studio tower with laundry below; a onebedroom house with living, dining and kitchen; a two-story guest house and a high-ceilinged library/study. Each of the elements is shaped in simple, vernacular forms finished in wood shingle, each is artfully placed in relation to the others, and all are spun together by a rambling wood deck that opens at intervals to arresting coastal views. The whole composition keeps a respectful distance from the shoreline.

The detailing throughout the house is spare and elegant in its simplicity. The roof planes turn down into the wall planes, for instance, without the interruption of barge board or fascia. Trim around openings is so reticent it all but disappears. At one corner of the deck, however, just off the kitchen, the need for a shaded outdoor eating area produced a novel and pleasantly flambovant series of details. The architect set a spinnaker on booms—a sail that can be adjusted to a range of sun angles by hand-operated winches mounted on the deck.

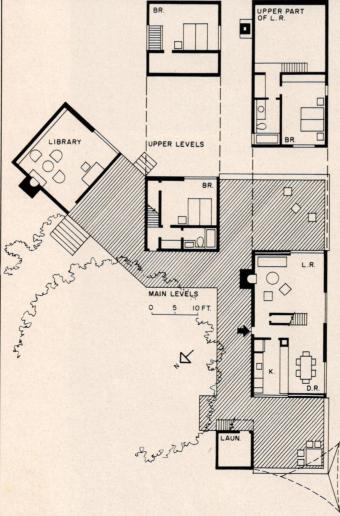
Though elegant in its details, the house has some of the same hardy character and stern New England virtues that we associate with the Maine fishing villages its massing seems to reflect. No roofs connect its four units and the access road stops two hundred feet short of the house.



Architect: Edward Larrabee Barnes 410 East 62nd Street New York, New York Private residence Location: Mt. Desert Island, Maine Engineers:

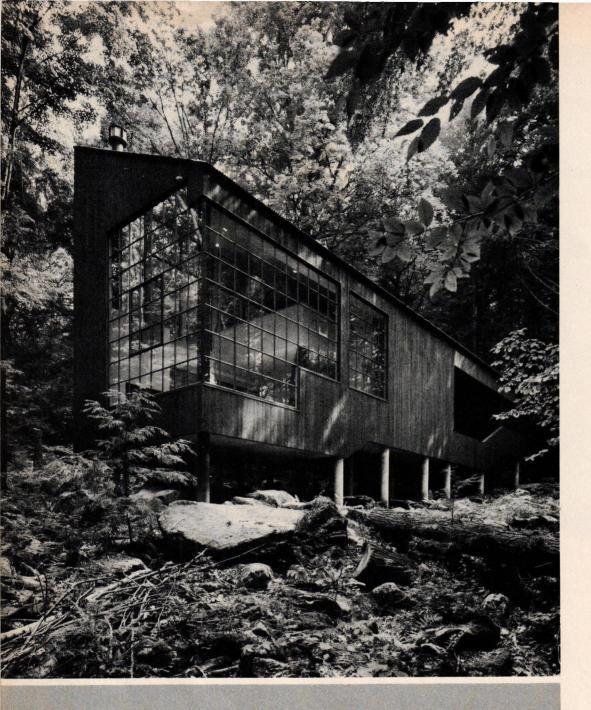
Severud-Perrone-Sturm-Bandel (structural) Robert K. Bedell (mechanical) Contractor: Horace Bucklin Photographer: David Franzen

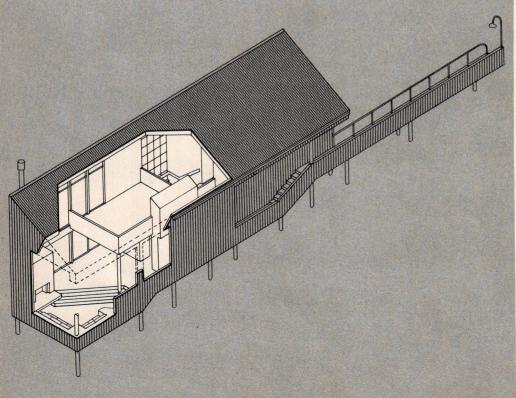












AGAINST A BACKDROP

OF FOREST GREEN,

A CONNECTICUT HOUSE

BY PETER BOHLIN

Its cedar siding stained green to blend with the leaves of a surrounding forest, this house-designed by architect Peter Bohlin for his parents—is in fine sympathy with a natural site of 18 acres in Cornwall, Connecticut. Seemingly modest from the approach (photo overleaf, top), the building is actually a carefully studied progression of vertically expanding spaces, which lead the visitor from the dark shade of evergreen trees at the drive and entry bridge into the high living room with a view of dappled sunlight through lacy deciduous branches.

An industrial-type light standard on the parking-lot side of the bridge begins a series of vertical, rust-red-painted orientation points in the visitor's progress. Others are the surrounds of the glazed front door, those round exposed-concrete columns that extend through the interior and-finally-the industrial-type framing of the living room windows expose the climactic view. The route over the bridge leads past the end of the building, which is only 12 feet wide, under the low roof of the porch, and down several flights of stairs until the full height of the living room is reached.

Careful attention to detail has made a dramatic product of simple materials such as corrugated aluminum for roofing, tongue-and-groove siding and circular concrete piers. Bohlin states that the contrast between large sheets of glass in the standard, black-finished sliding doors and the small panes of glass elsewhere (also standard) is intentional.

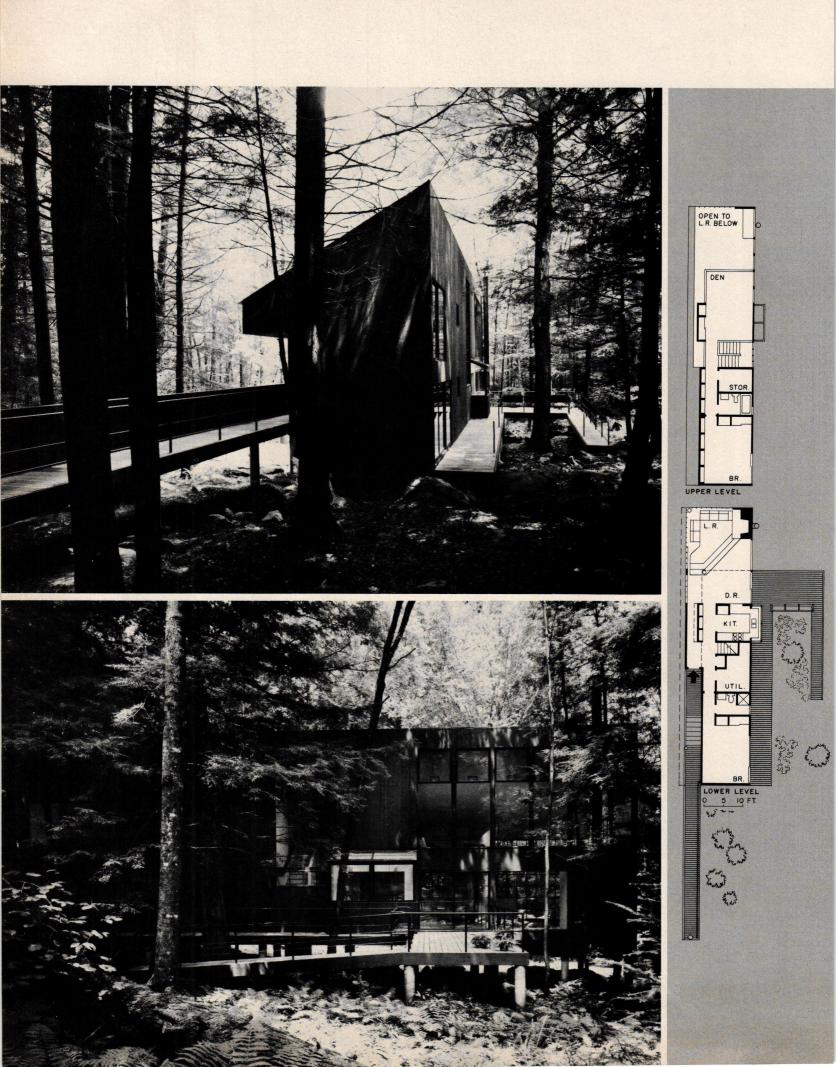
Costs for the 1,800-square-foot structure were just over \$30 per foot. The project has won two awards for design.





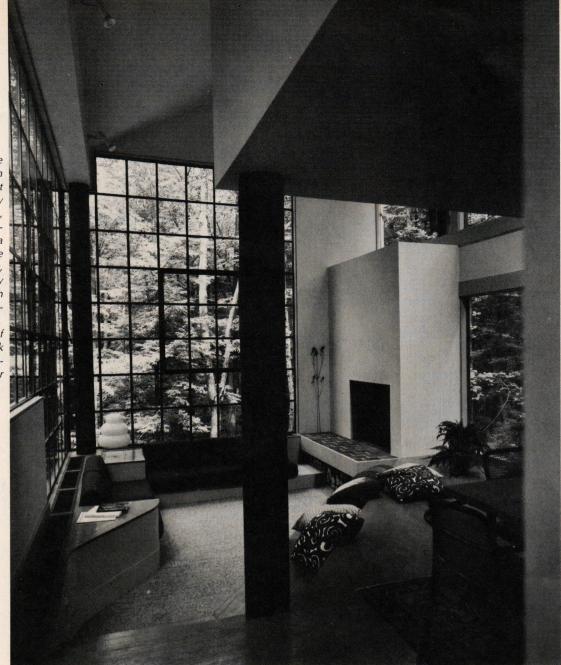
Architects: Bohlin and Powell partner-in-charge:
Peter Bohlin project architect:
Russell Roberts
182 North Franklin Street
Wilkes-Barre, Pennsylvania and
Gateway Towers, Suite 235
Pittsburgh, Pennsylvania
Owners: Mr. and Mrs. Eric Bohlin
Location: West Cornwall, Connecticut
Engineers: Rist-Frost Associates
Contractor: Olsen Brothers
Photographer: Joseph Molitor



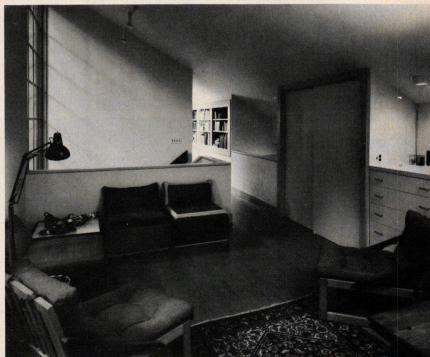


Seen from the entry side, the long shape is a transition from dark evergreen to sunlit forest (photo opposite, top). The view toward the kitchen (opposite, bottom) reveals the partial enclosure of the kitchen in a greenhouse-like structure. The stairs to the upper level (below, left) lead to the intimately scaled den (below, right) with its balcony-overlook of the living room.

The light gray finish of both walls and stained-oak flooring forms a soft-butdefined contrast to the darker colors of siding and structure.









VERMONT HOUSE WITH **NEW ENGLAND ROOTS**

BY HOBART BETTS

Here, on a softly sloping Vermont hillside, is a summer and winter weekend house for an active family of seven. Reached by an access road through a thick mask of trees, the house is set in a clearing on the crest of the hill at a point where woodlands give way to meadow. A low stone wall, just south of the house, emphasizes this division. From their living room, the owners can feel the shroud of trees about them but look beyond the wall to long, unobstructed views of surrounding country. At right angles to the main living spaces, and separated by a strip of deck, is a second smaller structure that contains a garage and recreation space. The void between the two structures provides an arrival point and offers entry to either building.

The main spaces of the house are tightly organized around a massive chimney breast. Living, kitchen and dining spaces are carved out of one large volume with separations suggested by built-in counters and changes in ceiling height. Bedrooms, separated by baths, complete the first floor plan. Upstairs, three bunkrooms, each containing four beds, are spaced out by baths in a pattern that offers both privacy and economy. Bands of clerestories bring light into the top of the house and illuminate the upper level corridor.

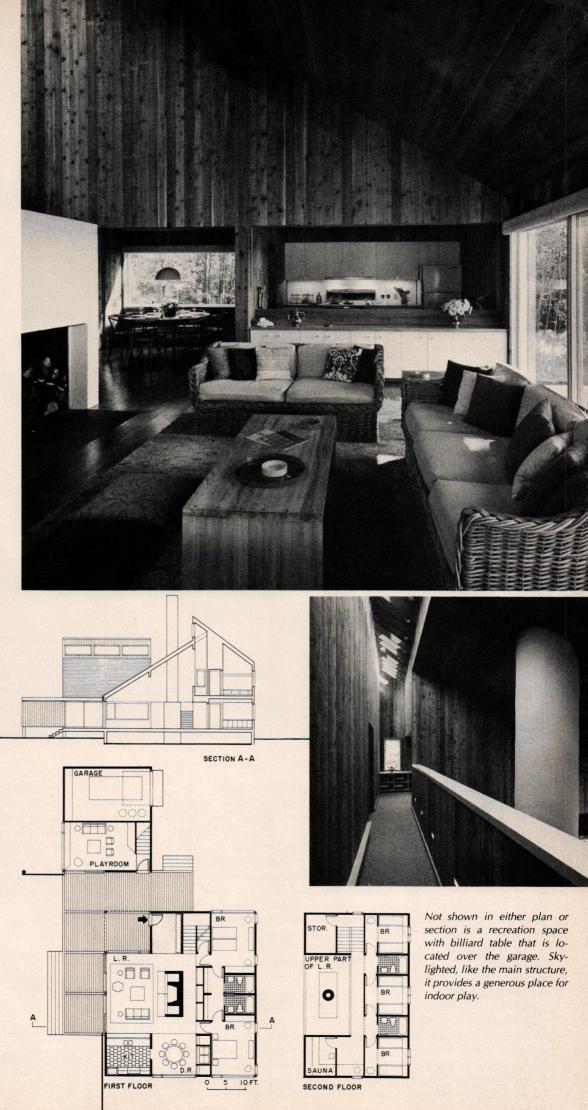
The forms of the house are reminiscent of Vermont's farm buildings built in a combination platform and post-and-beam framing system. The exterior walls are vertical cedar boarding stained to a silver gray. Interior partitions and ceilings are finished in cedar boards left natural. Doors, cabinetwork, fireplace and chimney are painted white.

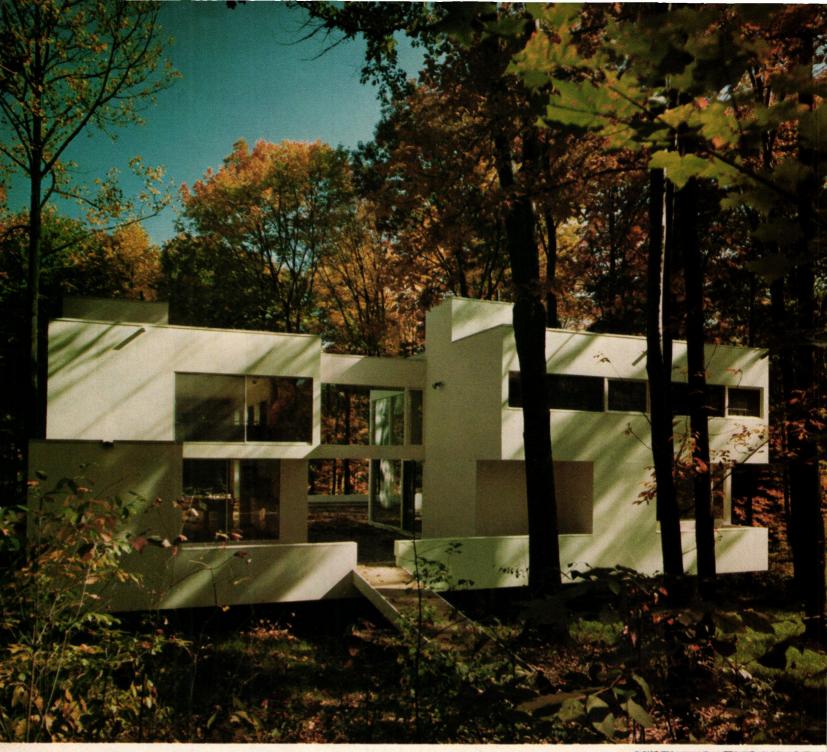


Architect: Hobart Betts project architect: Roger Lang 41 East 57th Street New York, New York Private residence Location: Southern Vermont Engineers:

Gleit, Olenek & Associates (structural) Landscape architect: Terrence Boyle Contractor: MacDonald & Swan Construction

Photographer: George Cserna





A SHARP-EDGED AND ELEGANT HOUSE IN NORTHERN OHIO BY DON HISAKA

When the architect and owners first explored the possibilities for this densely-wooded, 150-acre site, a "tree-house" with expansive outdoor decks seemed a reasonable starting point for conceptual design. As the functional requirements became clearer and more precisely defined, the tree house notion was modified to a more conventional elevated platform structure, but the broad areas of deck remained and a sense of living among the trees persisted as an important design theme.

The primary spaces in the house are grouped into two wings—one for parents, one for offspring-and in each case, vertical zoning places sleeping areas above living areas (see plans, opposite page). The two wings are linked by a short, glass-enclosed bridge. Openings, as well as decks, are oriented toward handsome views of three man-made lakes that change their aspect both by time of day and season. A fourth lake lies out of sight from the house a quarter mile to the west. The rest of the property is heavily wooded, giving the house an unusual degree of isolation and a special sense of its own privacy.

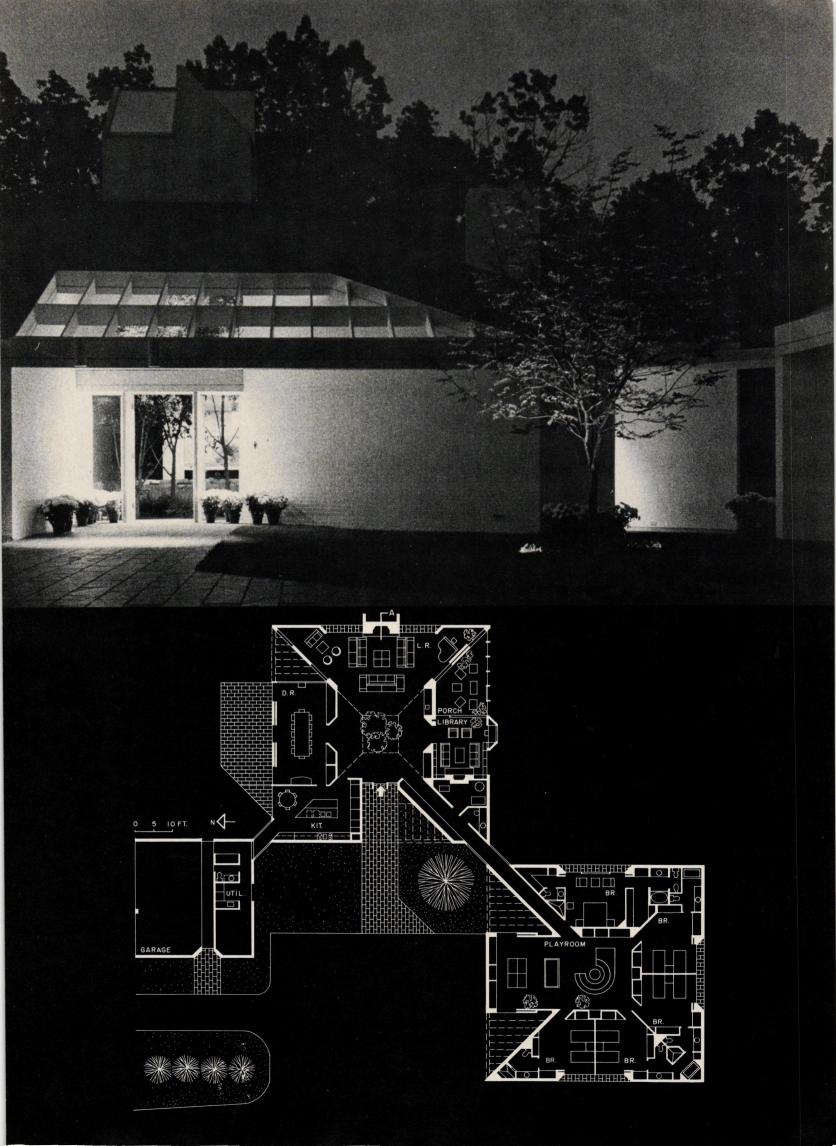
The enrichment of the simple cube forms by careful, knifeedged additions and subtractions, the consistency of the whitepainted plywood exterior and the detachment of the whole mass from the earth plane combine to make this house stand apart from its natural surroundings-not in conflict with them, but in sharply focused contrast.



Architects: Don Hisaka & Associates project architect: George Saire 257 The Arcade Cleveland, Ohio Private residence Location: Northern Ohio

Gensert-Peller Associates (structural) George Evans & Associates (mechanical) Lombardi & Associates (electrical) Contractor: Buell Davidson Photographer: Thom Abel







PRIVATE RESIDENCE BY HUGH NEWELL JACOBSEN



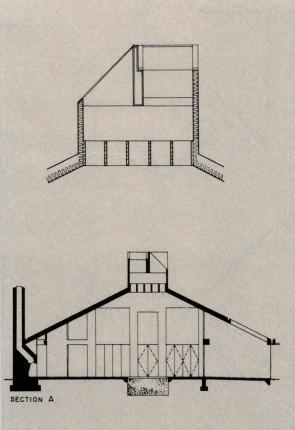




The small writing table (right) looks out to the site through a single acrylic sheet. Mirrors, framing the sheet on both sides, reflect the view in fractured images. Screened porch (above) has transparent glass roof reinforced by wire mesh to resist snow loads. Sliding panels are also reinforced.











BOOTH & NAGLE

REINTERPRET

CLASSIC HOUSE PLAN

OUTSIDE CHICAGO

Before this house was built for them on a suburban site in Hinsdale, Illinois, the owners lived in a large and elaborate mansion "with too many rooms and too much complication in general." Deciding to try to simplify their lives, they commissioned architects Booth & Nagle to design a house for them that was a cleaner statement of a more relaxed living style. Neighboring houses were in a neo-Georgian idiom, typically clad in brick and planned around a central entry and stair. The architects elected to adopt this theme but reinterpret it in a way that would be spatially liberating, easy to maintain, and, above all, fun to live in.

The approach to the Barr residence leads to a central entry hall with a living room opening to the left, a kitchen and dining space to the right. A circular stair at the end of the hall leads to bedrooms above. Much of the fun of the house—and its only complica-

tion—grows out of the diagonal relationships developed by rotating certain of the elements through 45 degrees. The justification for the rotation, in addition to the spatial liveliness it creates, is to turn toward longer views that are not blocked by adjacent houses that flank in an orthagonal relationship on either side.

Large openings, including skylights, bring generous amounts of daylight deep into the house, printing white walls with shafts of sunlight and shadow in everchanging patterns that reduce the need for wall decoration to an absolute minimum.

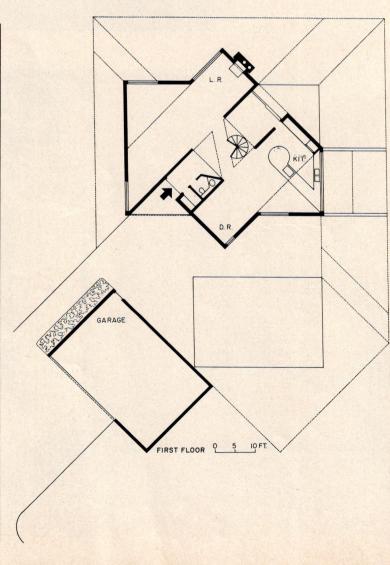
Moving around the house, inside or out, the planes unfold in an interesting progression revealing partial views to the second story and sometimes, through ribbons of plastic, the sky beyond.





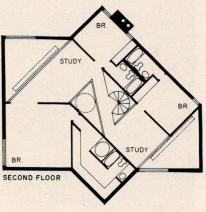
Architects: Booth & Nagle 230 East Ohio Street Chicago, Illinois Owner: Mr. & Mrs. Warren Barr, Jr. Location: Hinsdale, Illinois Engineers: Weisinger-Holland (structural)

Weisinger-Holland (structural)
Contractor: The Maddock
Construction Company
Photographer: Philip Turner



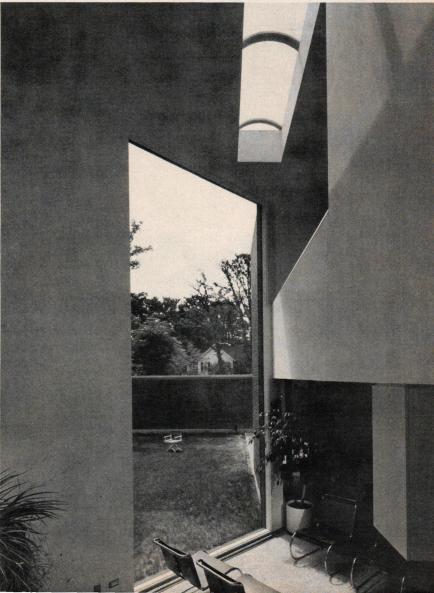


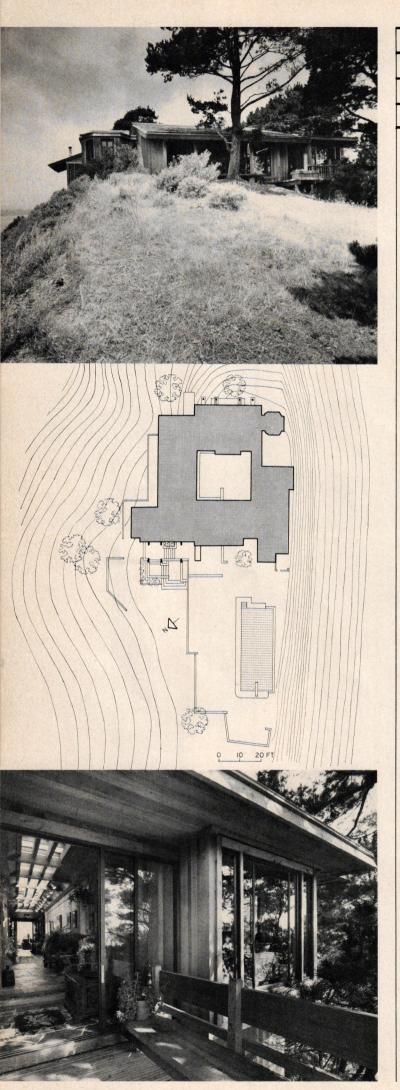




The exterior walls are face brick set in a colored mortar. Inside, the finishes are wood parquet for floors, ½-inch gypsum board on all partitions and ceilings. Colors are subdued, textures are kept in a fairly narrow range. Simplicity and ease of upkeep governed most of the detailing, especially at the great glass openings.







HOUSE AND SITE

BEAUTIFULLY MATCHED:

A TRADEMARK OF

WARREN CALLISTER

It is a rare site—the tip of Belvedere Island—with unrivaled views across the Bay to Sausalito and San Francisco. The building area is a narrow strip at the edge of cliffs that tumble down to the water's edge. Specimen pines, their brooding profiles shaped by the prevailing wind, were carefully preserved. The rock itself is deteriorating so caissons were sunk 12 feet to provide a stable foundation. Over these caissons, the architects built a really remarkable house: generously proportioned in its spaces, rambling in its organization, romantic in its images, luxuriant in its details. Living room, dining room, kitchen, master bedroom and rathskellar are all pivoted around a central courtyard on the main level and all of these spaces are linked by a long, skylighted gallery. The level below contains a library, guest quarters and a garage, which is covered with a foot of topsoil to form an exterior yard and garden above. The uppermost level is given over to children's rooms with provisions to accommodate a governess.

The house is designed in what the architects called "the Carmel/Big Sur/Monterey mood," with pitched roofs, wide overhangs, indigenous materials and details that show a great respect for these materials as well as pride in the work of the hands that fashioned them. The collection of furnishings, many pieces inherited from the owner's grandmother, show much the same spirit.

Most remarkable of all, perhaps, is the subtlety with which this 6000-square-foot house is sculpted into the hill.

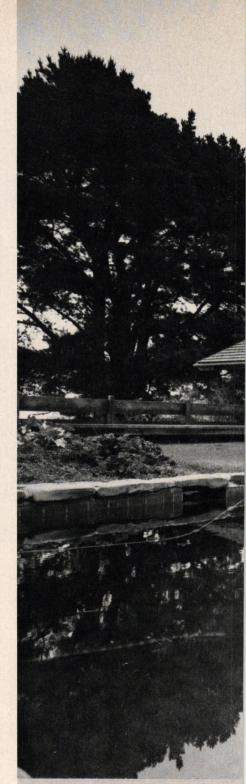






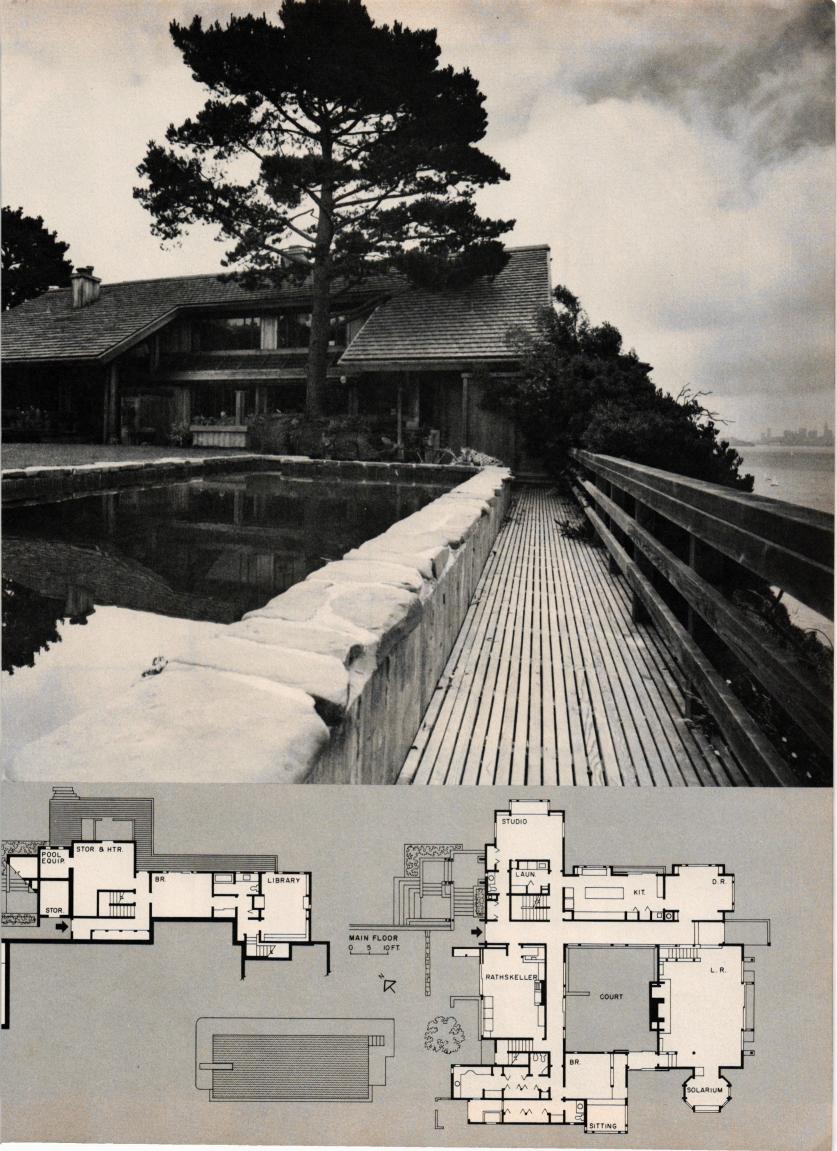
Architects: Callister, Payne & Bischoff project architects:
Alfred Morrissette and John Pryor 1865 Mar West Tiburon, California Private residence Location: Belvedere, California Engineers:
Shapiro, Okino, Hom & Associates (structural)

& Associates (structural) Harding, Miller, Lawson & Associates (site) Interior design consultant: Anthony Hail Studio Contractor: Olin Construction Photographer: Philip Molten



LOWER FLOOR

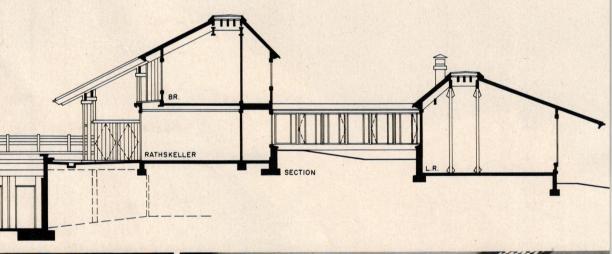
GARA







The range of primary finish materials inside is controlled: cedar siding for paneling, waxed slate for some floors, pine boards for others, plastic for skylights. Outside, the house is clad in random width cedar boards laid up vertically and the roof is covered in concrete shingle.









WILLIAM KESSLER'S

PLAN SIDESTEPS TREES

ON LAKE HURON SITE

Lake Huron is the all-absorbing focus of this house, which is sited on a six-acre parcel on the lake's western shore. A grove of cedar trees, estimated to be over 100 years old, dominates the site. The usable building area between the trees fell naturally into a series of triangular clearings (aerial photo, below) and this, combined with the owner's request for privacy between the spaces, led to the plan of separate triangular units all fed from a central spine.

If, at first glance, the plan seems strained, on closer inspection its logic is apparent. Living, dining, kitchen and master bedroom spaces face the lake in the two easternmost pavilions. Behind these, but still opening on the diagonals toward the lake, are additional bedrooms and a caretaker's unit. The final pavilion, shown in the photos (but not in plan) is a garage and turned away from the lake view. Secondary spaces are carefully placed within these pavilions to augment their internal privacy.

There was no blunting of the traditionally troublesome acute angles. Kessler brought the glazing right to the wood wall and, in effect, "planted out" the corner. This was easily accomplished because each triangular pavilion is constructed over a concrete pedestal and slab.

Each section of the house has its own heating and cooling system. Standing water from the flat roofs is drained to a storm basin and then pumped to two remote dry wells. Domestic water is supplied from an on-site shallow well using submersible pumps.

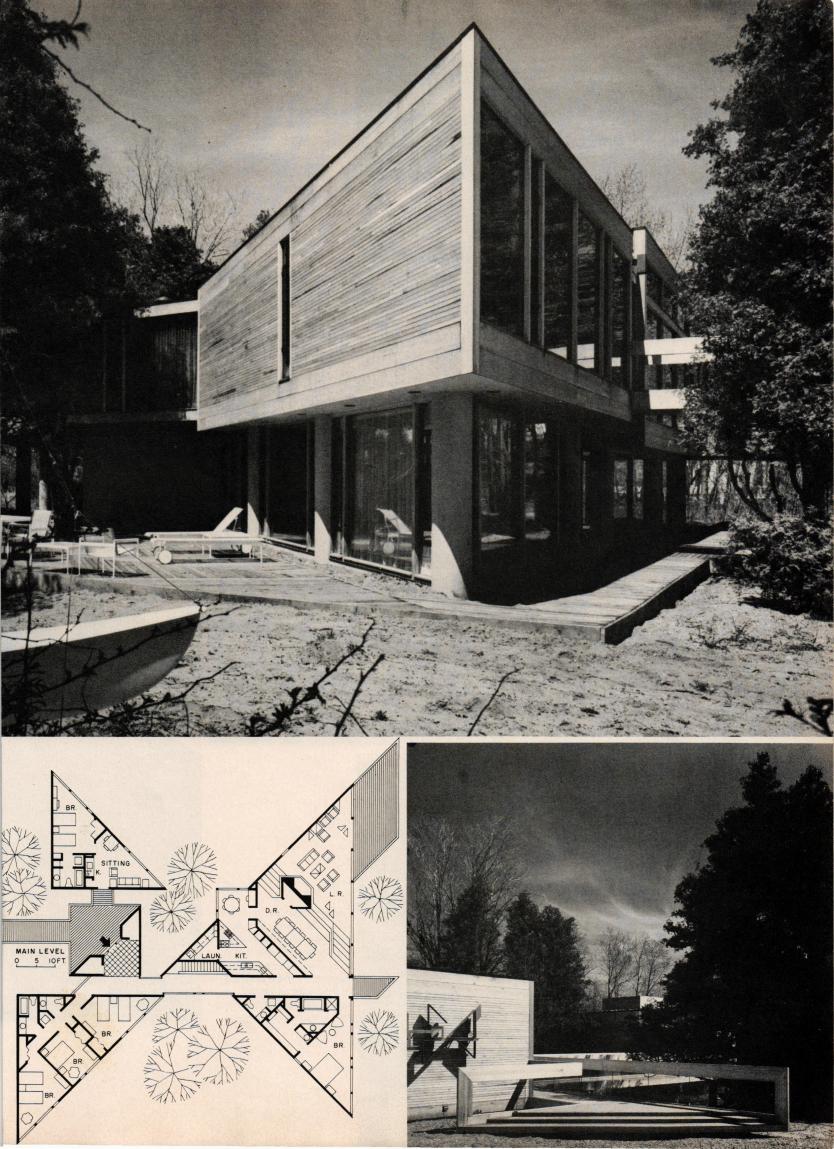
The triangular geometry is skillfully elaborated inside in changes of level, in the edges on the dropped ceilings, and in the design of built-ins—all of which shape and enrich the spaces to which they are integral.



Architects: William Kessler and Associates, Inc. 733 St. Antoine Detroit, Michigan Owner: Mr. and Mrs. Warren J. Coville Location: Lakeport, Michigan Engineers: McClurg Associates (structural) Sanctorum & Associates (mechanical) Harry Hoffman (electrical) Contractor: John Keils Photographer: Balthazar Korab









COVILLE HOUSE BY WILLIAM KESSLER AND ASSOCIATES



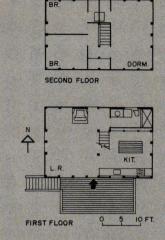


The principal finish materials are cedar siding, drywall, carpet, travertine marble, ceramic tile and bronze glass, which are used in generous amounts. The detailing of these materials, as in the carpet (photo left), is designed to reinforce the triangular vocabulary of the house.









The upper level contains bedrooms with a dormitory character. The middle level, reached from the bedrooms by a stairladder, includes living, dining, kitchen and bath. The lowest level (not shown in plan) is an equipment storage area with an earthen floor.



ROBERT KINDORF

AND HIS FAMILY BUILD

THEIR OWN RETREAT

ON A MODEST BUDGET

Without power tools, without heavy equipment, without, in fact, outside help of any important kind, the Kindorf family, fivestrong, built this appealing, threelevel cabin on a two-acre site in Plumas County, California. The site is choked with pine and dips down to a large creek where swimming and trout fishing are seasonal preoccupations. The cabin was built over a period of three summers with cabinetwork and furniture construction occupying the long winter months in between.

The cabin has no electricity. Light is provided by kerosene lamps and heat by a Franklin stove. A 500-gallon, gravity-fed water tank supplies domestic needs and sewage wastes are

chemically treated and stored. The absence of modern conveniences is in no way deprivative, for the family agrees that the simplified life style that results is fun and greatly heightens the sense of place.

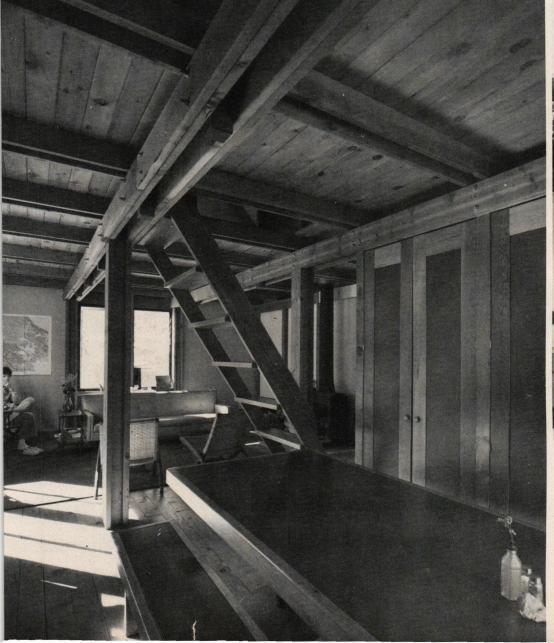
Clad in cedar board and batten over plywood sheathing and 4- by 4-inch wood studs, the cabin has a simplicity and structural logic plainly visible in the photos. Its living and sleeping arrangements have a pleasant informality and its detailing and finishes are minimal.

Because of its inherent modesty and the very special circumstances surrounding its construction, the Kindorf cabin was built for the astonishingly low figure of \$5 per square foot.



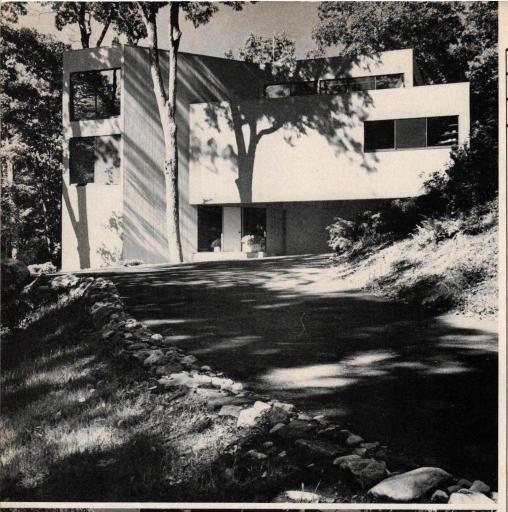
Architect and owner: Robert Kindorf 245 Draeger Drive Moraga, California Location: Plumas County, California Contractors: The Kindorf family Photographer: Philip Molten







To ease the erection process, Kindorf framed out the floors in doubled 2x6s, bolted in place, and the roof in 2x8s, also paired. Floor planking is white fir, roof is galvanized sheet.





RICH, COMPLEX SPACES IN CONNECTICUT HOUSE

BY LEONARD PERFIDO

This is a wonderfully complex house full of spaces that are complex in shape, opened by surprising changes in ceiling height, and lit by windows in unexpected places. The strong diagonal planes were arranged to create varied outdoor spaces-some sunny, some shaded—open to the rocky and wooded site in Weston, Connecticut. Inside (see plan opposite and interior photos, next spread), the walls-all at a 45-degree angle-create rooms that are unconventional in shape but, upon study, prove to be not only fun but functional, within a plan organization that is well zoned and meets a difficult program. The house was built to accommodate a young couple both of whom work, their young son, a person who cares for the child, and three sons from a previous marriage who visit for a few weeks at a time during the year. On the ground level (see plans), is the young son's bedroom with large closets for toy storage and a built-in desk; and a room for his nurse which could in the future serve as a guest room. The upper level loft, open to the living room below and with tree-top views over a golf course, is the owners' work area, with a 20-foot built-in desk. A foldout sofa permits the space to double as a sleeping loft when the older sons visit.

The focus of the house is a large, irregularly shaped living-dining-library space which accommodates all of the social activities of the family. The kitchen is large, and—since both Mr. and Mrs. Gold are avid cooks—it has a large institutional range. The reading-sitting area in the main living space opens to the master bedroom suite.

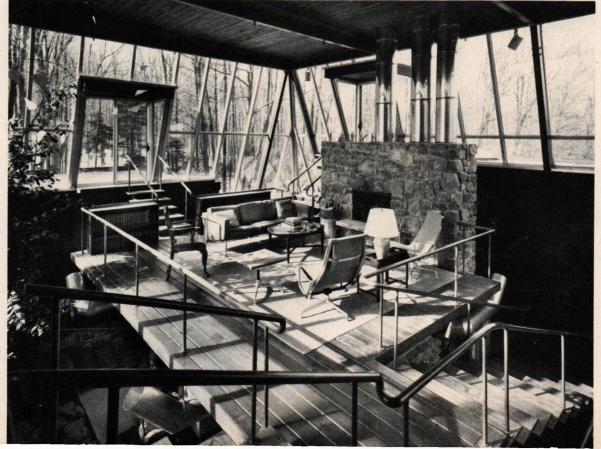
The 2,900-square-foot house is finished inside and out with clear cedar.



Architect: Leonard P. Perfido 6415 Howe Street Pittsburgh, Pennsylvania Owners: Michael and Sirje Gold Location: Weston, Connecticut Structural engineers: Robert Silmann Associates Contractor: Michael Sochacki Photographer: Maris/Semel

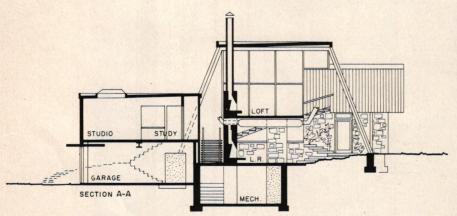






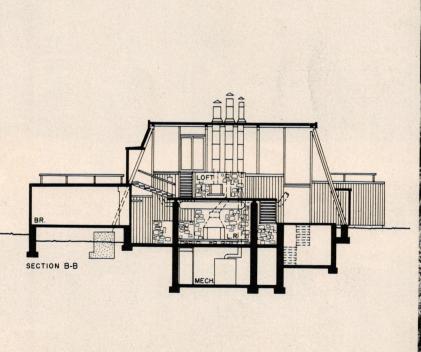


PRIVATE RESIDENCE BY JOHN JOHANSEN

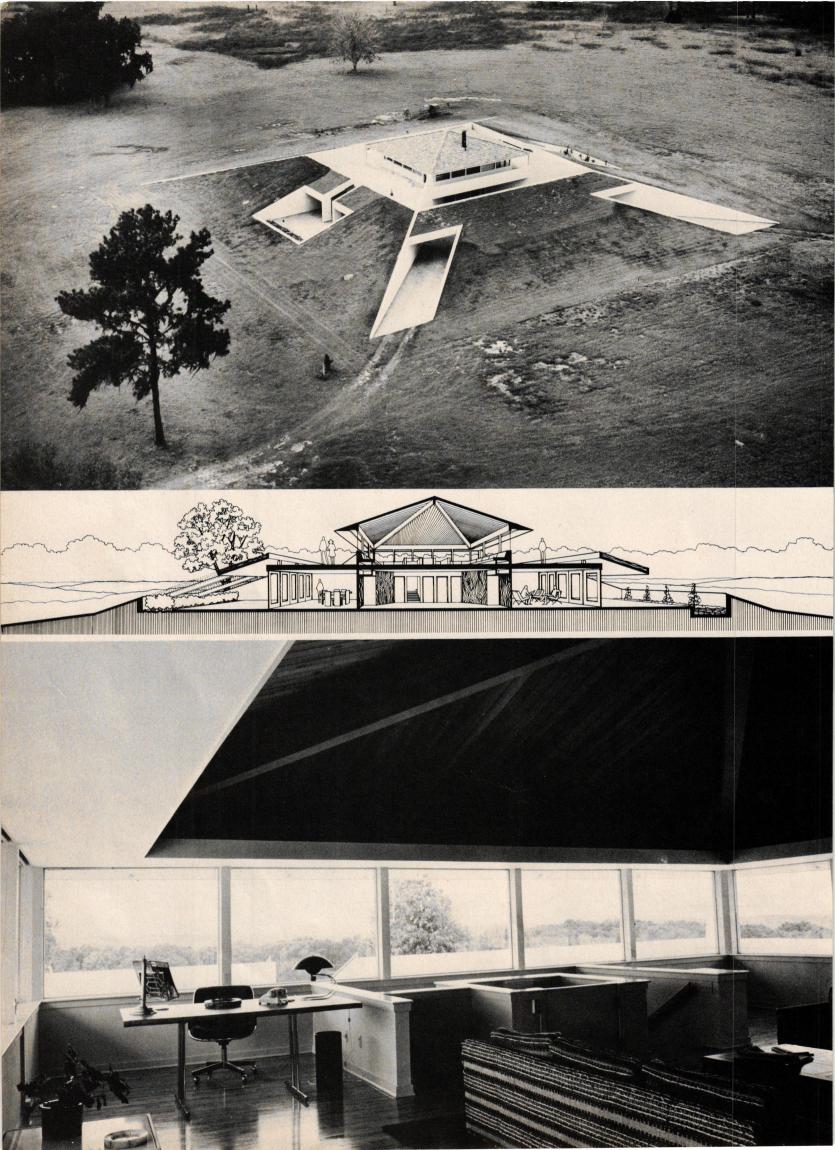














EARTHFORM HOUSE BY WILLIAM MORGAN ECHOES FLORIDA'S PRE-COLONIAL PAST

First published as a project (RECORD, September 1972), this earthform house in central Florida is built into the crest of a hill that overlooks citrus groves on the valley floor 230 feet below. From its uppermost level, tucked under a hipped roof, the owner can look out in every direction across enormous expanses of view that reach into five surrounding counties. The architect reports that on one occasion from this vantage he was able to count seven separate thunderstorms in progress simultaneously.

In sharp contrast, views from the lower level are confined and intimate. The ends of the cruciform plan open through glass doors to small partially-enclosed courts (photo above) which, by their different orientation, architectural treatment and planting, provide a variety of sensory experience.

The structure is reinforced concrete block with tie beams, pilasters and a concrete slab

poured in place. All exterior walls are earth-insulated except where glazing occurs. Partitions are plaster board on wood stud, glass is solar gray tinted, and the roof is finished in clay tile.

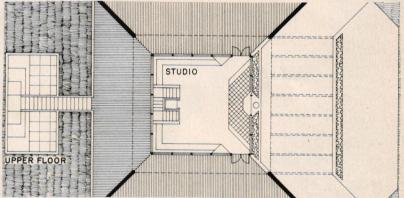
The original elevation of the hilltop was just about the level of the first floor slab. The pyramidal flanks of the building, therefore, represent an extension of the hill inclined upward at about 18 degrees.

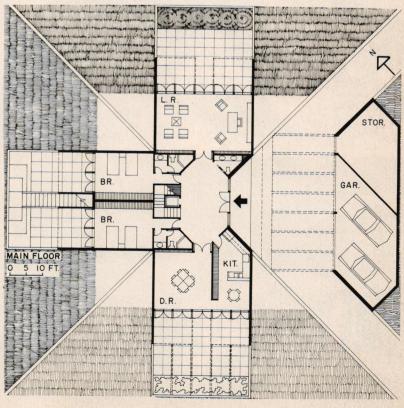
In addition to being a graceful and interesting solution for this exposed but isolated hilltop site, the parti is reminiscent of earth mound buildings developed centuries ago by the various Indian tribes that inhabited central Florida before its present settlement. Reinterpreted here, the earthform idea seems just as compelling today.

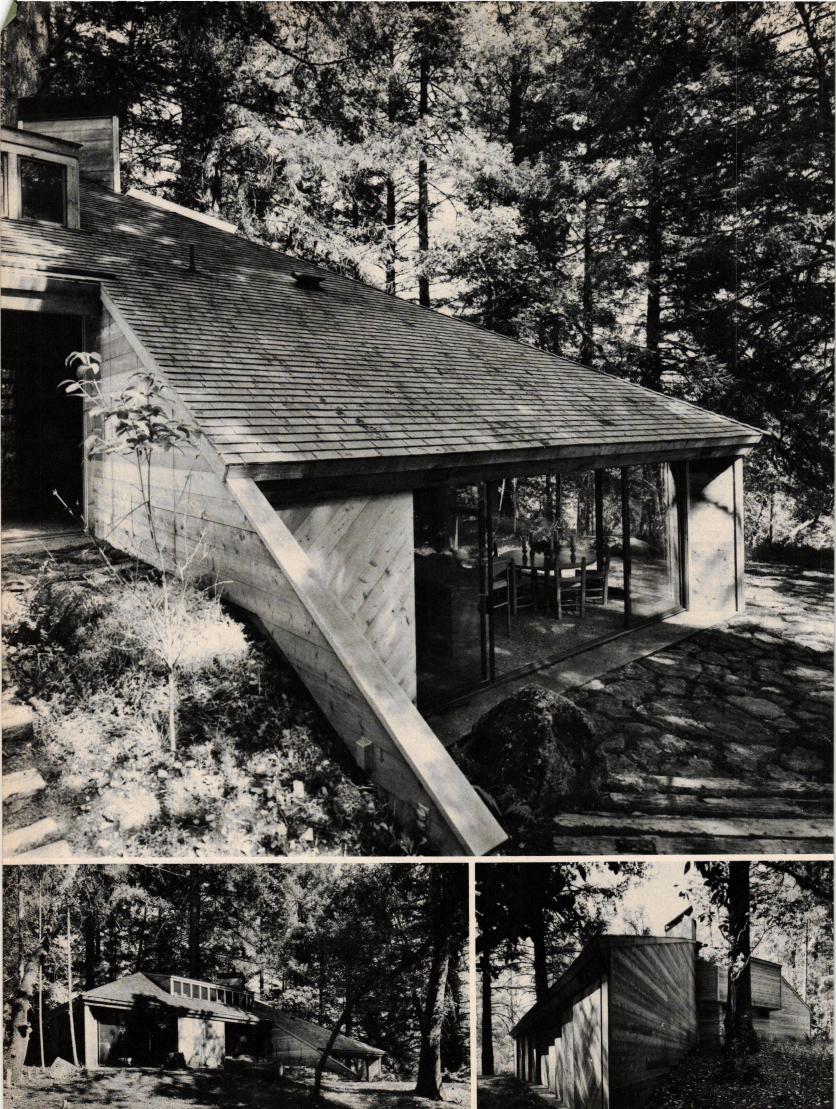


Architect: William Morgan
project architect: Thomas A. McCrary
220 East Forsyth Street
Jacksonville, Florida
Private residence
Location: Central Florida
Engineers:
Haley Keister (structural)
Roy Turknett (mechanical)
Contractor: Howard Woodward

Photographer: Creative Photographic Svc.







SPATIALLY FREE

CALIFORNIA HOUSE BY

KIRBY FITZPATRICK

About 60 miles north of San Francisco, near the Napa Valley town of St. Helena, this weekend house, of about 1,700 square feet, is set into a hilltop clearing beneath towering pines.

Now and again, one can hear cones and branches fall onto the contour-clutching hip roof, laid up in red cedar shingles, pitching high over good-sized living, entertainment, and sleeping areas.

Because of the slope, the structure steps down, with two levels. At the entranceway, at the end of a mile-long drive, the second level, containing a guest room, protrudes over the front door and, to assure privacy, no other openings are placed on this side of the house. The lower-level living spaces, which the guest room overlooks, are expansive, opening out to the surroundings, and embellished with examples of Bay Area art. In a spatial free-forall, the living room flows into an affable, kitchen-eating area and, just adjacent, the owner's study.

The planes of resawn, knotty cedar, used outside as well, and the overhead beams of fir, set up a unifying play of surfaces that is anchored in place by a hearth of Feather River travertine (browns, tans) from way up in the Sierras. Sunlight and moonlight take turns with the skylight above the hearth, the room being luminous even after dark when, most usually, beasts can be heard going bump in the night round about the terraces, laid down in local fieldstone and bordered with ferns.

Things going bump in the night are what the design is meant to fend off. Which is why the open sides of the house can be closed in, burglarproof, with big rolling "barn doors" that bolt into the concrete aggregate slab.

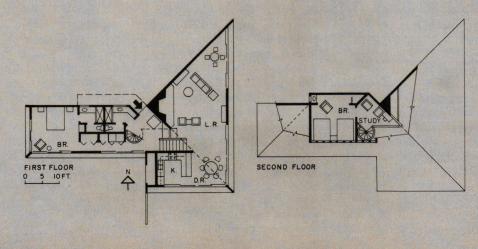
Like life in these parts, this house has a well-organized nonchalance; its elements work and play, as its occupants do, with no thought as to which is which.



Architect: Kirby Ward Fitzpatrick 447 Sutter Street San Francisco, California Private residence Location: St. Helena, California Landscape architect: Jonathan Herr Contractor: H.S. Meinberger and Son Photographer: Jim Ball









A SWEEPING ARCH AND A SALTWATER MARSH: KEY ELEMENTS IN THE

PETER WOERNER HOUSE

"To me, the marsh is a microcosm of life itself, constantly in a state of flux, never static, changing with the seasons, the days, with the tides, with the constant procession of wildlife—ducks, herons, hawks, shorebirds all feeding on what the tide brings in or, in ebbing, uncovers. . . " Thus architect/owner Peter Woerner de-

scribes his view—a 90-acre tidal marsh facing Long Island Sound. The actual site is a long granite ridge at the edge of the marsh, a ridge that steps down to the eastward suggesting a natural series of half levels. Here, behind a scrim of hickory and oak, Woerner sited his house, a house he envisioned as springing from, and then returning to, the earth in a pure form—an easy and effortless arc.

On the uppermost level, under the arching roof form, the owner has a master bedroom, dressing room, bath and private deck overlooking the marsh. The

level below is given over to guest bedrooms and a studio that are separated by half a level. The lowest levels are kitchen, dining and living spaces, the dining space being framed in greenhouse sections (photo opposite) and opening to a southern exposure. The architect reports that the greenhouse provides a passive solar heating situation with the brick floor over the ledge serving as a heat sink. The living room, drawn back from the glass wall, is sheltering and intimate.

The main perimeter arches were laminated from 2 by 12

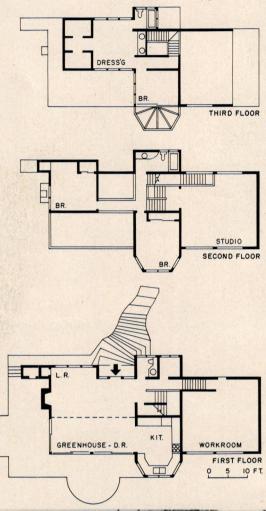
planks of Douglas fir with a ½-inch thickness of plywood sand-wiched in between. All joints are scarfed and staggered. Joists span between the arches and the whole structure is covered with ½-inch thickness of plywood which acts as a vast stressed skin.



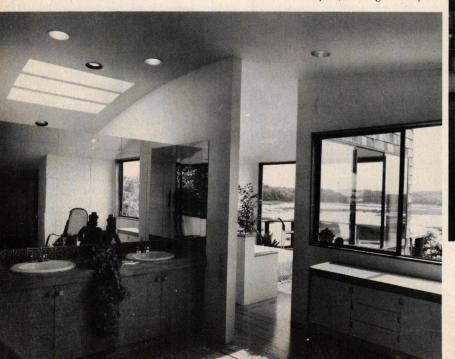
Architect, engineer, owner, contractor:
Peter Kurt Woerner
182 Leetes Island Road
Guilford, Connecticut
Location: Guilford, Connecticut
Graphics consultant: Christina Beebe
Photographer: Robert Perron







All the principal spaces in the Woerner house open through large expanses of glass to views of the marsh. The studio, photo above, is glazed using a standard industrial sash cut at its edges to fit the curvature of the roof. The plans show a simple, compact, well organized space.





APARTMENTS OF THE YEAR

The purchasers of Record Apartments have, of course, decided to buy instead of to build. But they are nonetheless interested in design quality, and the six multi-family projects that follow are successful in their efforts to go beyond the demographic profiles and the market analyses that so often seem to serve both as limits and as ultimate design goals in this building type. Located on sites as widely spaced as Newport, Rhode Island and San Francisco Bay, each of these six is matched to its site with the utmost care. Each has a consistent internal logic that influences its design down to the smallest details. And all—whether large or small—are abundant in the physical images that provide a sense of place and of enrichment.

The case for this kind of housing was made decades ago in this country and earlier elsewhere. Our purpose here is to encourage its development, to hasten a time when this kind of design quality is as much the rule for owners who buy as it is for those who build.—*B.G.*

OLD AND NEW MIX IN

PENNSYLVANIA ESTATE

BY BOHLIN & POWELL

Newberry Estate is a 325-unit apartment project located on an 86-acre property in Dallas, Pennsylvania. Existing on the site were a large private residence, a caretaker's cottage, a barn group and a greenhouse. The landscape varied from lawn and formal gardens to orchards, open fields and woodlands. A small stream extends diagonally across the site.

Making use of these existing resources, the architects arranged the structures in clusters around a loop road that winds in a lazy way around the property. The old barn group (photos lower right) became the project's center and includes dining spaces, a pool, a pro shop and a raised terrace. A covered walk links these spaces, which pivot around the old grain silo. The venerable estate house has been converted to an inn and a nine-hole golf course was carefully fitted into the estate's pattern of open spaces.

New construction consists of conventional wood and light steel framing clad in cedar siding and trim to harmonize with the existing structures. Principal living spaces turn outward from the cluster toward the open landscape, and parking, wherever possible, has been shielded by screens or earth mounds. Extensive use was made of balconies, recessed terraces with solid side walls, and intimate courtyards to protect the privacy of each dwelling unit.

What is most successful, perhaps, is the mating of old and new elements at Newberry Estate. No effort was made to hide the seams, but great care was taken to integrate the two in ways that would bring out the inherent qualities of each.



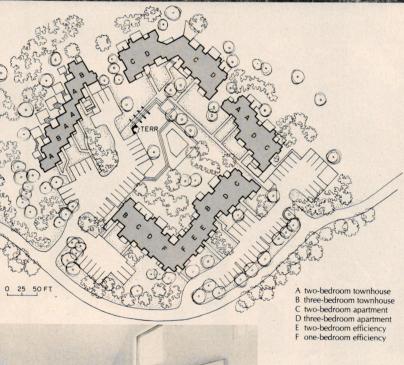


Architects: Bohlin and Powell
182 North Franklin Street
Wilkes-Barre, Pennsylvania and
Gateway Towers, Suite 235
Pittsburgh, Pennsylvania
Project name: Newberry Estate
Owner: The Troup Fund, Inc.
Location: Dallas, Pennsylvania
Landscape architects:
John Brown & Associates
Contractor: Mushal Construction
Photographer: Sandy Nixon

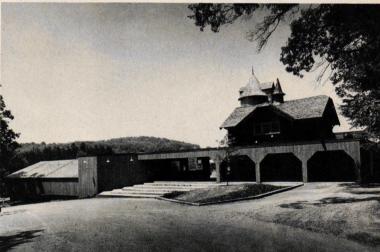


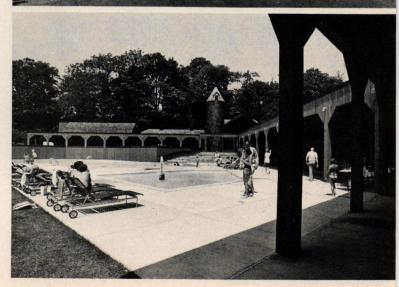














TAHOE HOUSING ON EUROPEAN PROTOTYPE

BY BULL FIELD

VOLKMANN STOCKWELL

When the snows come to Lake Tahoe so do the skiers—and in increasing numbers each year. Not all of this beautiful region's recent development has been praiseworthy, but Northstar Village, by architects Bull Field Volkmann Stockwell, has been designed and built with sensitivity to its surroundings as well as to the recreational needs of its users. It is also built on a European resort model, employing tidy, compact planning principles that emphasize a sense of community rather than individual spatial amenity. Most living spaces (see plans) are minimal when compared to other secondhome developments, but the first phase of this project has sold well and another grouping of similar units is now in planning. When it is complete, the two groupings will enclose a central plaza that will act as a gathering point and focus for the whole development.

The section at right reveals the planning scheme concisely. Residential units, located on the upper levels, have their own access and parking underneath. Linking all the units is a low arcade on the plaza level lined by shop windows and restaurants. Balconies over the arcade give condominium owners views into the central plaza or to the slopes beyond.

The structures are heavy wood frame clad in cedar siding. Only the roof, finished in blue metal, adds an accent of color to contrast with the natural tones of wood. The characteristic roof form is designed to protect against ice slides caused when the relatively warm interior spaces melt the snow by day and sub-freezing temperatures refreeze it at night.



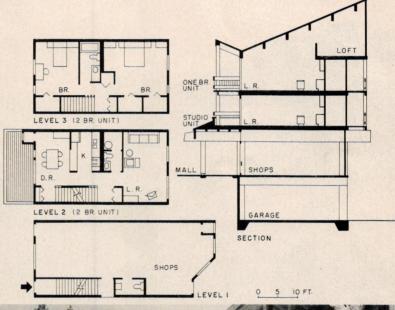


Architects: Bull Field Volkmann Stockwell project architect: Steven Kodama designer: Serge Bicking 350 Pacific Avenue San Francisco, California Project name: Northstar Village Owner: Trimont Land Company Location: Placer County, California Engineers: Gilbert, Forsberg, Dickmann & Schmidt

(structural)

Dames & Moore (foundation) Marion Cerbatos & Tomasi (mechanical) Contractor: Murchison Construction Photographer: Tom Lippert









C A D D KEY SECTION O 5 10 FT.

The low profile of project is enhanced by the clear, sharp line of roofs (left). Most units have fenced-in private terraces (bottom); six units share a common open area. Interior spaces meet residents' needs, for architects met with tenants during planning stage. The steep slope affords multi-level apartments and diversity in ceiling heights.



THE VIEW'S THE THING: LOW-COST HOUSING BY KAPLAN & MCLAUGHLIN

A prime site in Marin County north of San Francisco-with spectacular views to San Francisco and man-made lagoons—is the location of Hilarita apartments, a Section 236 Federally-assisted housing project. While only 102 units occupy the 12.8 acre site, there was a limited area on which to build, because of a commitment of 4.5 acres as open space (as part of Tiburon's trail and park system) and poor soil conditions. The instability of alluvial clay soil throughout, and the necessity to meet building codes for earthquake resistance, meant extensive soil preparation before construction (including earth fill, installation of drains, benching, and earth buttressing to contain fill). Foundations consist of drilled concrete pier footings and poured-in-place concrete grade beams. The buildings' low profile on the hill was a solution to the desire to not obstruct neighbors' views and to economic considerations (for construction costs escalated during litigation which plagued the project).

Despite all these proscriptions, the project was designed to permit every unit a view. Other amenities include a private entrance for every apartment; parking near units (though separated); and little abutment of units, for noise control. Community spaces are grouped near the entrance, with a playground adjoining an all-purpose center, containing the manager's and maintenance offices, laundry facilities, a meeting room, and space that can be converted to a day-care center in the future. Exterior material is rough-sawn redwood plywood.



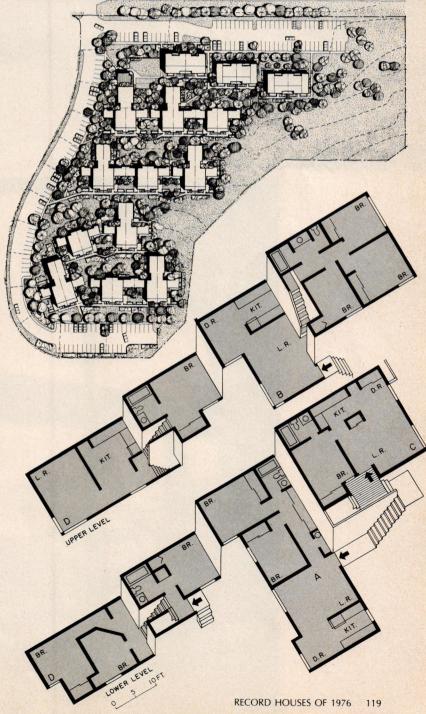




Architects: Kaplan/McLaughlin partner-in-charge: Ellis Kaplan project designer/manager: Peter Gordon 407 Jackson Street San Francisco, California Project name: Hilarita Owner: Tiburon Ecumenical Association Location: Tiburon, California Engineers: Toft & de Nevers (structural) Harding-Lawson Associates (soils/foundation) Frost & Meglio (civil) Mel Cammisa (electrical) Landscape architects: Kaplan/McLaughlin Consultants: E. M. Schaffran & Co. (financial management and planning) Contractor: Williams & Burrows Photographers: Joshua Freiwald (exterior)

Jeffrey Heller (interior)









HOUSING FOR A CITY IN CHANGE BY GLASER/

DECASTRO/VITOLS

When the large naval base at Newport closed several years ago, the small, historic, seaport city faced an uncertain and changing future. Though it had always enjoyed a flourishing summer trade—it hosts a summer jazz festival and the America's Cup races—the need for a stable, year-round population became increasingly urgent and Brick Market Place is an effort to attract and accommodate that population.

Built on a 31/2-acre site that was once part of a strip of sailors' bars, right on the harbor front, this project includes 44 residential units of various size, 10 offices, and 30 specialty shops—all set off from surrounding neighborhoods by circumferential parking for 205 automobiles. Within the island created by this parking, the site is paved in brick and warmly landscaped. The broken roof lines created by alternating two- and three-story residential units adds visual enrichment and they turn to enclose courts and subcourts that give the plan an agreeable scale and relaxed, inviting character. Openings between the rows of houses offer carefully framed vistas to the water. The informal massing, the "punched-out" fenestration and the use of wood siding as a principal exterior finish all combine to relate Brick Market Place to the rest of the city.

The range of residential units offered here embraces one-, two- and three-bedroom apartments, plus a small number of triplex townhouses. Nearly all (photo left) have views of the harbor.

In this Bicentennial year, it is especially pleasing to note an historic American city building and adapting nicely to change.



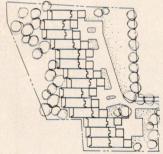


Architects: Glaser/de Castro/Vitols
Chalermpol Intha, designer
585 Boylston Street
Boston, Massachusetts
Project name: Brick Market Place
Owners: Westminster/Schochet Associates
Location: Newport, Rhode Island
Engineers:

Thomas Rona Associates (structural)
Samuel Lesburg Associates (mechanical)
Goodall Shapiro Associates (electrical)
Goldberg-Zoino Associates (foundation)
Landscape architects:

Shurcliff, Merrill & Footit Planning consultant: Martin Adler Contractor; Reliable Homes, Inc. Photographer: © Steve Rosenthal







SIGMUND BLUM'S PLAN GAMBLES ON QUALITY FOR DETROIT SUBURB

On a three-acre site that had followed the too-familiar pattern of lower and lower grade uses until it has become little more than a dumping ground, architect Sigmund Blum designed this unusually spacious, 14-unit condominium project. The site overlooks a deep ravine that gives the project its name and the condominium owners a welcome, jointly-held natural amenity.

The units are a combination of two- and three-bedroom residences, grouped in a wood-clad, flat-roofed, two-story mass that steps back in a series of offsets to conform to the lip of the ravine. Each of the units has a detached, 2-car garage separated from the main entry by a private, landscaped courtyard. The spaces within are generously propor-

tioned as well as simply and sensibly organized—spatial decisions that result in an elegant rectilinear geometry with understated detail throughout. Abundant glazing at both ends of the plan ensures generous amounts of light that reach deep into the waist of the buildings. Over a portion of the living room the second floor is cut back to produce a double-height space (photo above) that adds an unexpected, but welcome, volumetric interest.

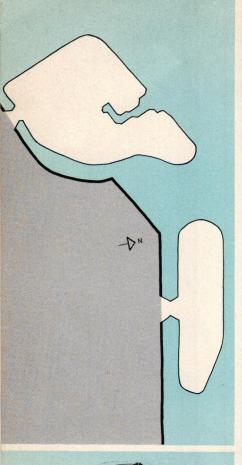
The exteriors are clad in cedar siding laid up vertically. Inside, the principal finish materials are drywall for partitions and ceilings, oak strip for floors. The use of quality finishes and the openhanded dimensioning were possible because the architect was also owner and developer. He believed that a sector of the suburban Detroit market was prepared to pay in the \$90,000 range for quality condominium housinglittle of which was available in the area. Experience might have proved him right for all 14 units are now sold but, caught up in the stagflation, sales moved too slowly—the obvious quality of the units notwithstanding. The owners, as a result, almost broke even but not quite. The architect/owner reports that he still believes the market is there but will not try again until economic conditions improve.

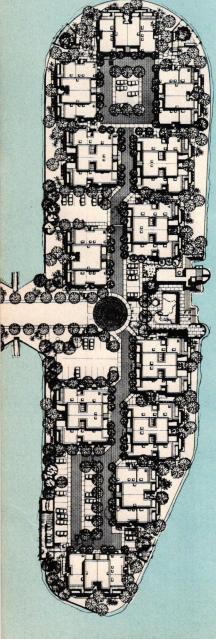
The construction costs for the 2,600-square-foot units were just under \$30 per foot.



Architects and owners: Sigmund Blum, Vaporciyan & Mitch 1900 Fisher Building Detroit, Michigan Project name: The Village Ravines Location: Franklin Village, Michigan Engineers: Nick LeBar (structural) Gordon Hoyem (mechanical)

Landscape architects: Grissom & Young Contractor: Blum, Vaporciyan & Mitch Photographer: Balthazar Korab





ISLAND DEVELOPMENT

ON SAN FRANCISCO BAY

BY FISHER-FRIEDMAN

Located on two islands in a large, man-made lagoon near the southern tip of San Francisco Bay, this condominium development provides a fascinating geometrical configuration in which all apartments have a view to the water. Excellent site planning and design amenities in individual units create one of the most pleasant new housing developments in the area.

Of the three-phase construction, only the third phase (half the island) is unfinished; its completion is expected by the end of 1976. All condominiums are organized into six-unit, rectangular buildings—each with four flats and two townhouses. The ground level consists of two flats facing the water, and either an eight- or 12-car garage, always facing the street; the upper level consists of two, two-story townhouses in the center, flanked by two, one-story flats.

On the small island (bottom left) the buildings are positioned around the perimeter, with a circulation spine in the center, serving both pedestrian and automobile traffic. To obtain views to the water for each apartment and provide visual interest from across the lagoon, the buildings were staggered. The clubhouse—as focal point of the development—is located in the middle of the island near the entrance.

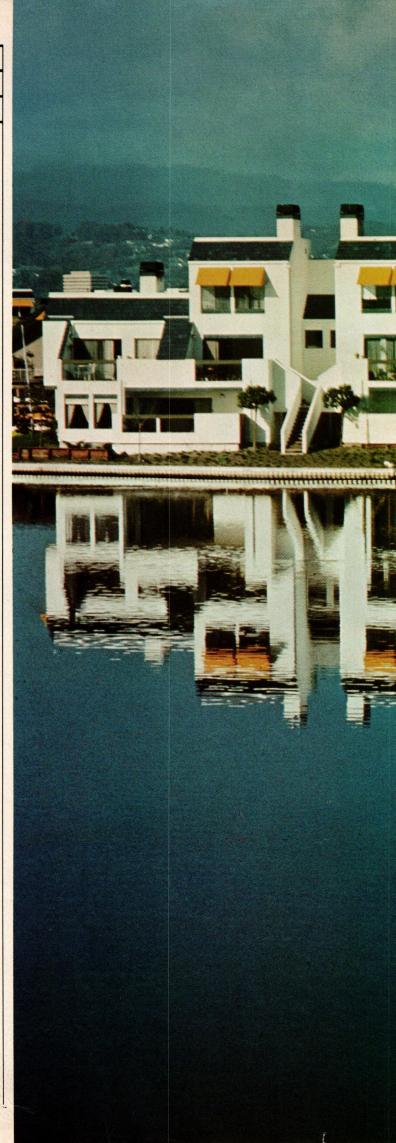
As an intentional contrast to other housing in the area, the project was painted white, and accented with yellow awnings, cedar wood details, and blue ceramic tile on roofs and as trim on windows and stair rails. Extensive landscaping, especially along streets, includes trees between garage doors.

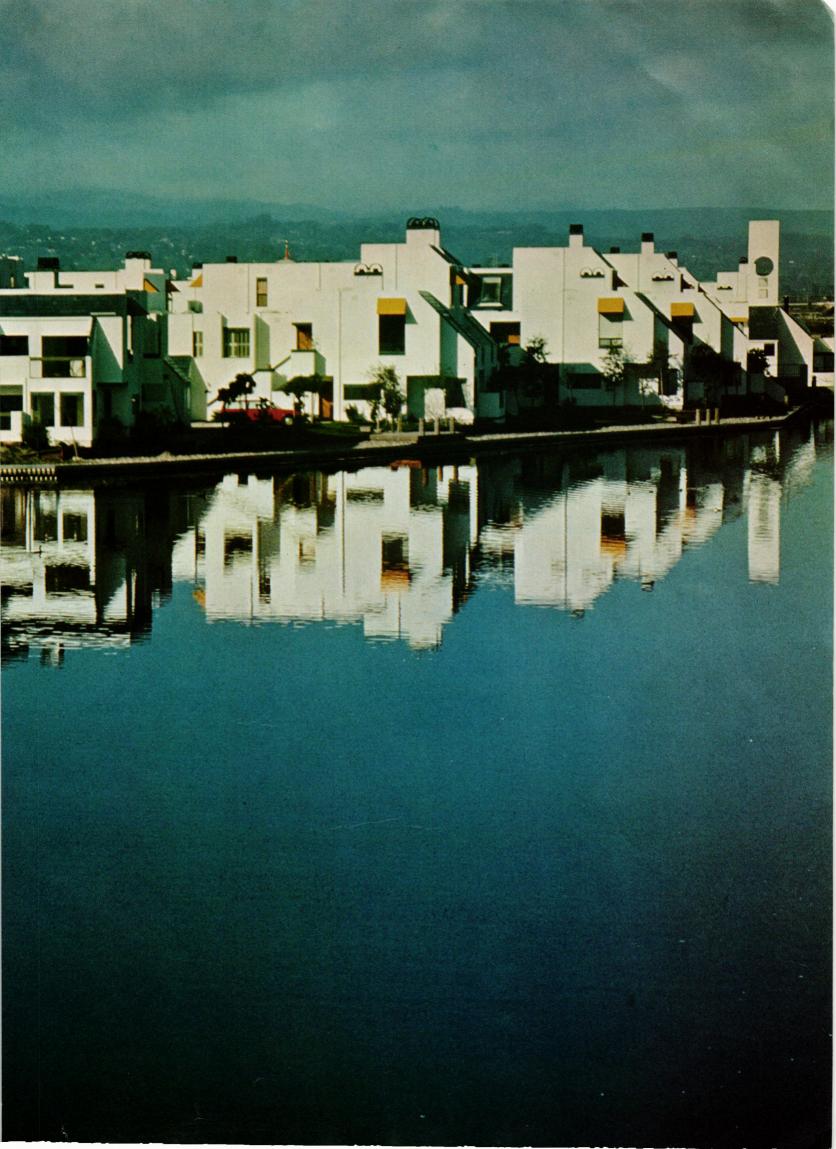


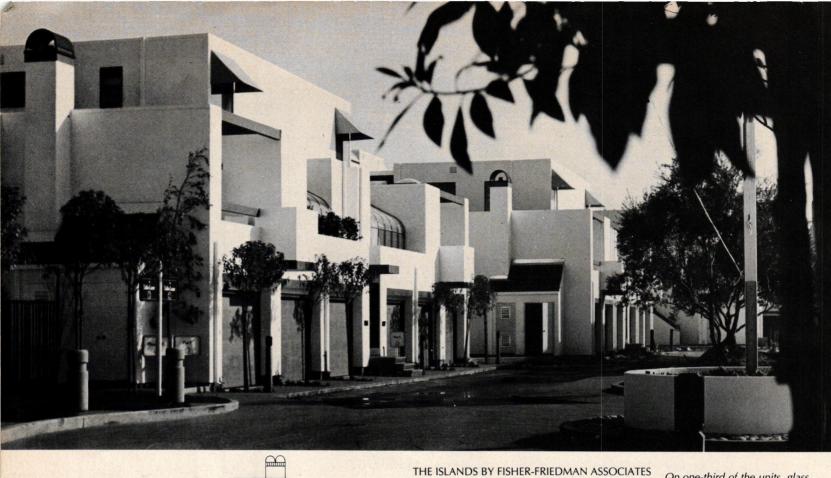


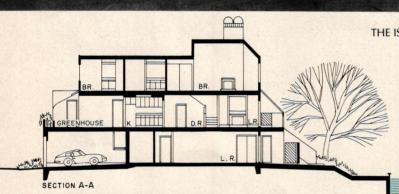


Architects: Fisher-Friedman Associates -A. Robert Fisher, Rodney Friedman, Robert J. Geering 242 California Street San Francisco, California Project name: The Islands Location: Foster City, California Owner: Vintage Properties Engineers: L. F. Robinson & Associates (structural) Burlogar, Long & Associates (soils) Galloway & Associates (civil) Landscape architects: Anthony M Guzzardo & Associates Contractor: Herman Christensen & Son Photographer: Joshua Freiwald

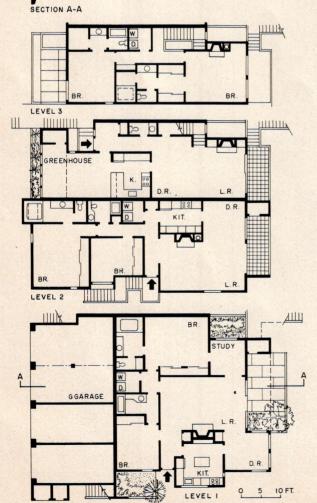


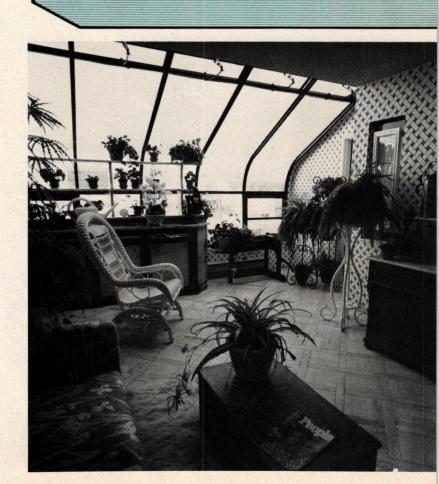






On one-third of the units, glass enclosures (often used as greenhouses) add another dimension of light to the space, and also enhance visual interest along the street. All balcony railings were constructed of tempered glass panels, providing shelter from strong winds while not obstructing views to either water or street.







For more data, circle 34 on inquiry card



For more data, circle 35 on inquiry card

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LITERATURE FOR HOUSE PLANNING

For more information circle selected item number on Reader Service card, pages 153-154

APPLIANCE/AIR CONDITIONERS / A 20-page catalog gives detailed information and installation tips on a complete line of ranges, wall ovens, hoods, room air conditioners, dishwashers, waste disposers and refrigerators. Laundry equipment is also covered. Hotpoint Sales, Louisville, Ky.

Circle 400 on inquiry card

STANDBY GENERATORS / Specifications for gas, gasoline and diesel generator sets with outputs of from 1.25 to 500 kw are given in a new brochure. • Kohler Co., Kohler, Wis.

Circle 401 on inquiry card

TUB RECESS / A four-color brochure presents the "bath-in-a-box:" a kit containing all materials needed for finishing a tub recess. Five panel designs are featured, including two murals, all in 1/8-in -thick water-resistant Marlite. Masonite Corp., Dover, Ohio.

Circle 402 on inquiry card

FAUCETS / A fully-illustrated 24-page catalog shows the complete line of Delta/Delex single- and two-handle washerless faucets. Featured are "Scald-Guard" bath valves; kitchen, lavatory and utility faucets are shown. • Delta Faucet Co., Greensburg, Ind.

Circle 403 on inquiry card

GAS/OIL FURNACES / Fuel and space-saving features of new home heating furnaces are explained in three brochures. For use with gas are the "Stowaway" space-saving unit, and the "Duracurve" heat-exchanger design for up-flo gas furnaces. A third booklet describes an economical oil furnace with atomizing burner and aerodynamic heat exchanger. . Lennox Industries, Inc., Marshalltown, lowa.

Circle 404 on inquiry card

BATHROOM FAUCETS / A four-color catalog presents a full range of bath faucets and accessories, including the 'Grohmix" unit, a thermostatic mixer. Kitchen faucets are also included. Grohe, Elk Grove Village, Ill.

Circle 405 on inquiry card

SWIMMING POOLS / Pictures of over 500 pools entered in a design competition are featured in a new booklet intended to express the variety of pool styles possible, from small residential pools to large municipal ones. Installations include above-ground pools, and all types of motel, condominium, and community pools. The brochure is available for a \$3 postage and handling charge from the National Swimming Pool Institute, 2000 K St. N.W., Washington, D.C. 20006.

HVAC UNITS / Oil, gas and electric furnaces designed specifically for manufactured housing are described in a four-color foldout. Also covered are air conditioning units, controls and filters. • Home-Siegler Div. of LSi, Holland, Mich.

Circle 406 on inquiry card

ALUMINUM BLINDS / The energysaving advantages of the "Mark II" thin-slatted aluminum window blind are outlined in a new brochure. Alcan Building Products, Warren, Ohio.

Circle 407 on inquiry card

PLAYGROUND EQUIPMENT / A 16page color catalog covers a full range of park and school playground climbers, slides, etc., as well as bleachers, cycle racks, park stoves and benches, and backstops. • Quality Industries, Inc., Hillsdale, Mich.

Circle 408 on inquiry card

HOME APPLIANCES / Ranges, dishwashers, refrigerator-freezers, and packaged and built-in air conditioners are described in a new 1976 catalog. "Hi-efficiency" models are featured; all cut-out dimensions and electrical ratings are given. • General Electric, Louisville, Ky.

Circle 409 on inquiry card

TILE INSTALLATION MANUAL / This 25-page handbook is said to greatly simplify and standardize installation specifications for ceramic tile. Quickreference details, outlines and charts cover most installation methods and conditions. There is a section on sound transmission loss classes for various ceramic tile wall assemblies. Tile Council of America, Inc., Princeton, N.J.

Circle 410 on inquiry card

EXTERIOR SIDING / Featured in a new 24-page book are color photos of actual hardboard siding applications. Included are horizontal and vertical patterns, smooth and textured surfaces, and both contemporary and traditional designs. Finishing instructions and specification data for both lap and panel sidings are included. • Masonite Corp., Peoria, III.

Circle 411 on inquiry card

PLYWOOD SIDING MANUAL / The correct field finishing of textured plywood siding is stressed in a new builder's manual. Data is based on extensive testing, and covers details from delivery of panels to the site, to estimated service life for each type of application. • U.S. Plywood, Stamford,

Circle 412 on inquiry card



If you're an architect or anyone who specifies tennis courts, you need the best source material available.

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Chevron Asphalt Company

Mr. Jack Goldschmidt, Dept. 0 194 P.O. Box 7643, San Francisco, CA 94120 (415) 894-4682.

For more data, circle 39 on inquiry card

STUCCO COATING / "Stucorock" is a ready-to-use polymer stucco for exterior wall coatings. A clear nonyellowing plastic base is combined with colors and fillers and applied with simple equipment. A color folder gives application and coverage information and suggests other uses for the compound. • Coating Laboratories, Tulsa, Okla.

Circle 413 on inquiry card

HARDWOOD FLOORING / Both topof-the-line "Architectural" flooring and moderate-priced "Specialty" parguet patterns are described in a fullcolor brochure. Also available is information on the firm's "Vinylwood II" strip flooring, hardwood veneer planks under 20 mils of clear vinyl, with a peel-and-stick backing. • Wood Mosaic, Louisville, Ky.

Circle 414 on inquiry card

INTERIOR COATINGS / A 24-page book describes "Pitt-Glaze" waterand solvent-base polyester-epoxy high-solids coatings, as well as a block filler and a sealer. These finishes are intended for hard-use areas such as schools and restaurants, which require frequent washing and a stain-resistant surface. PPG Industries, Inc., Pittsburgh, Pa.

Circle 415 on inquiry card

CUSTOM CABINETS / A color brochure offers data on 21 styles of kitchen and bath cabinets, storage units and accessories. Units are oak, birch or cherry wood, with a choice of 17 different finishes. • Hager Mfg. Co., Mankato, Minn.

Circle 416 on inquiry card

EXHAUST FANS / Range hoods, exhaust fans and fan/heater/light combination units for bathrooms are detailed in a 16-page catalog. All new models in the line have infinite-speed solidstate controls. • National Industries, Inc., Ocala, Fla.

Circle 417 on inquiry card

CERAMIC TILE / Over 60 new ceramic tile designs are pictured in a 12-page brochure. These additions bring to nearly 300 the number of styles available, from the U.S. and abroad. A price list is included. • Agency Tile, Inc., Spring Valley, N.Y.

Circle 418 on inquiry card

STAINLESS-STEEL SINKS / Over 100 models of residential, commercial and institutional sinks and accessories are described in a 16-page catalog. Sinks may be ordered in either a satin finish or a highly-polished mirror finish. Jenson-Thorsen, Inc., Addison, III.

Circle 419 on inquiry card

BATH CABINETS / Mirrored cabinets in a wide variety of styles, including Early American and modern, are shown in several brochures. Included is a triple-mirror unit with a storage capacity of over 3 cubic feet. Cabinets can be flush or surface mounted, and all mirrors are warrantied for five years. Miami-Carey, Monroe, Ohio. Circle 420 on inquiry card

PHOTOMURALS / Illustrations by many well-known 19th-century American artists are among those shown in a new catalog. All are available as photomurals and large mounted photo prints. Included are subjects depicting early seafaring, California miners, American Indians, etc. Sizes and mounting details are given. • Action Graphics, Kirkland, Wash.

Circle 421 on inquiry card

LANDSCAPE LIGHTING / A fourcolor brochure details a low-voltage lighting system for gardens, walkways, patios, etc. Featured are floodlights, hanging "satellite" lights, globes and well lights. Also shown is an illuminated name-number sign which can be easily personalized by the homeowner. All lights operate on 12-volt current. . Malibu Lightscaping Systems, Intermatic Inc., Spring Grove, III.

Circle 422 on inquiry card

RESIDENTIAL FURNITURE / An extensive catalog presents the "Golden R" collection of six residential furniture groupings. Featured in the "Manchester" Early American series are a free-standing poster bed, dresserdesks, chests, etc. All pieces are made of solid or veneer hardwoods. • R-Way Furniture Co., Sheyboygan, Wis.

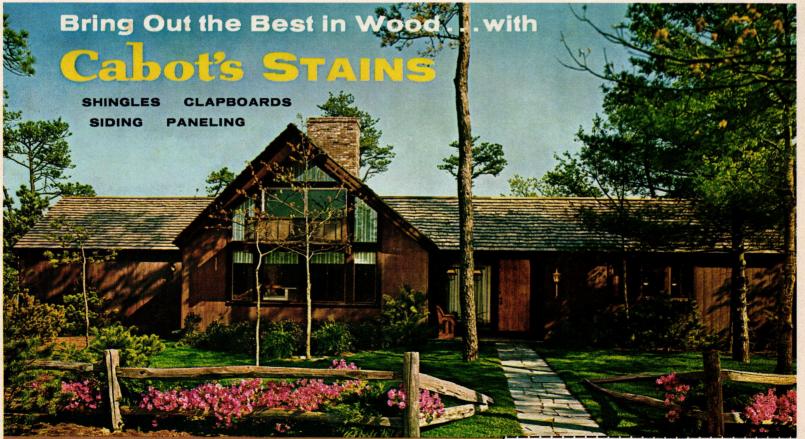
Circle 423 on inquiry card

FLOORCOVERINGS / Carpeting in a number of textures and fibers, as well as vinyl tiles, vinyl sheet flooring and decorative rugs, are illustrated in a new 36-page catalog. Tips are given on selecting colors and patterns; installation needs and care instructions are included. • Sears, Roebuck and Co., Chicago, III.

Circle 424 on inquiry card

FURNISHINGS CATALOG / The recently-published Sweet's Showroom is a sourcebook of furniture, accessories and portable lighting for designers and architects. Over 2,500 photographs illustrate 35 product catagories, including new sections on furnishings for dormitories, libraries, hotels and motels, and residential lounges. Distribution is controlled • Sweet's Div., McGraw-Hill Information Systems Co., New York City.

Circle 425 on inquiry card



Home at New Seabury, Cape Cod, Mass.; Architect: Royal Barry Wills & Associates, Boston, Mass.; Cabot's Stains throughout

All the exterior and interior wood surfaces of this magnificent home have been treated with Cabot's Stains. These stains, so easy to apply, penetrate deep into the wood, accent the grain, never crack, peel, or blister. A stained surface grows old gracefully; weathering actually enhances its beauty. Cabot's Stains beautify in 87 colors.

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FIRE/SECURITY SYSTEM / The "Intruder" system protects residences with fire-heat and smoke detectors as well as security alarms. The control unit pictured has a self-contained alarm horn; is all-solid state; and UL-listed. Standby battery power is optional. Any tampering with the perimeter detection circuit will cause a self-supervised closed loop to trigger the alarm signal. A separate interior detection circuit can be turned off when not needed. Accessories include infrared dectectors, automatic telephone dialer, floor mat detectors, and foil for taping large glass areas. . Nutone Div., Scovill, Cincinnati, Ohio.

Circle 305 on inquiry card

HEATERS / Two fan-heater units for residential use have been introduced. The "Pryne" series is an exhaust-heatlight combination (below) designed for bathroom ceiling installation. All of these models feature white enamel grilles, automatic reset thermal overheat protectors, pre-wired junction boxes and a multi-position wall switch, which permits single or multiple operation of its particular exhaust/heat/light combination. The "FWH2000" heaters provide total or supplemental heating for family rooms, additions, workshops, etc. These fan-forced wall units may be recessed or surface-mounted; heating outputs of from 1500 to 4000 watts are available. All models have an integral thermostat with "tamper-resistant" controls, power disconnect switch, overheat protector, and permanently lubricated fan motor. • Emerson-Chromalox, St. Louis, Mo.

Circle 306 on inquiry card



GAS RANGES / New additions to this manufacturer's appliance line are two 36-in. and three 30-in. gas ranges. Burner assemblies are one-piece porcelain enameled steel, and lift off for easy cleaning. Controls are located in front of the cooking platform, with push-in operation through a 90 deg. arc. Four of the models feature continuous-clean ovens with door windows. Top-of-the-line units have six-hour oven timers with an automatic "cook and warm" control, and a four-position, roll-out broiler. All stoves have a unique burner assembly which provides proper air-gas mix without air shutters. • White-Westinghouse Appliance Co., Pittsburgh, Pa.

Circle 307 on inquiry card



BRITISH BUILDING PRODUCTS / Several products sponsored by Britain's Building Materials Export Group were exhibited at the NAHB show in January. Pictured is an economical metric-module kitchen, including sink units, floor and wall cabinets, and "larder," all shipped in flat packs. Also from England is "Spoutcrag" slate flooring, a silver gray/green. Other slates are light sea green, olive and a blue/black. Hardware includes the "Top Brass" series of solid brass handmade door knobs for both interior and exterior use. These are said to install easily, and to be interchangeable with U.S.-made sets. The "Manor House" line features handcrafted ironware for doors and windows, and also includes wrought iron gates, brackets and wall fittings. • British Information Services, New York City.

Circle 308 on inquiry card

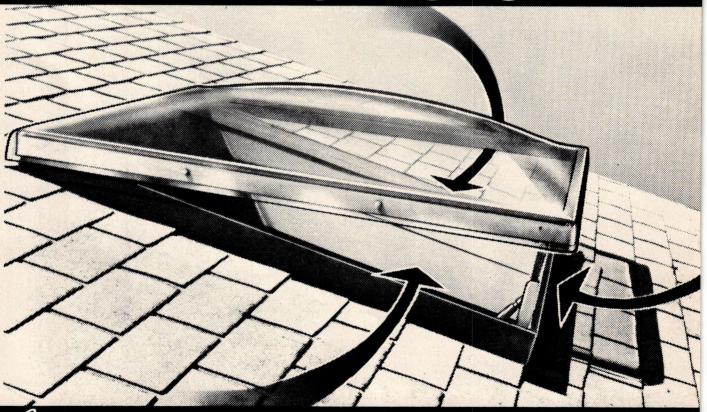


more products on page 139

the ventilating skylight

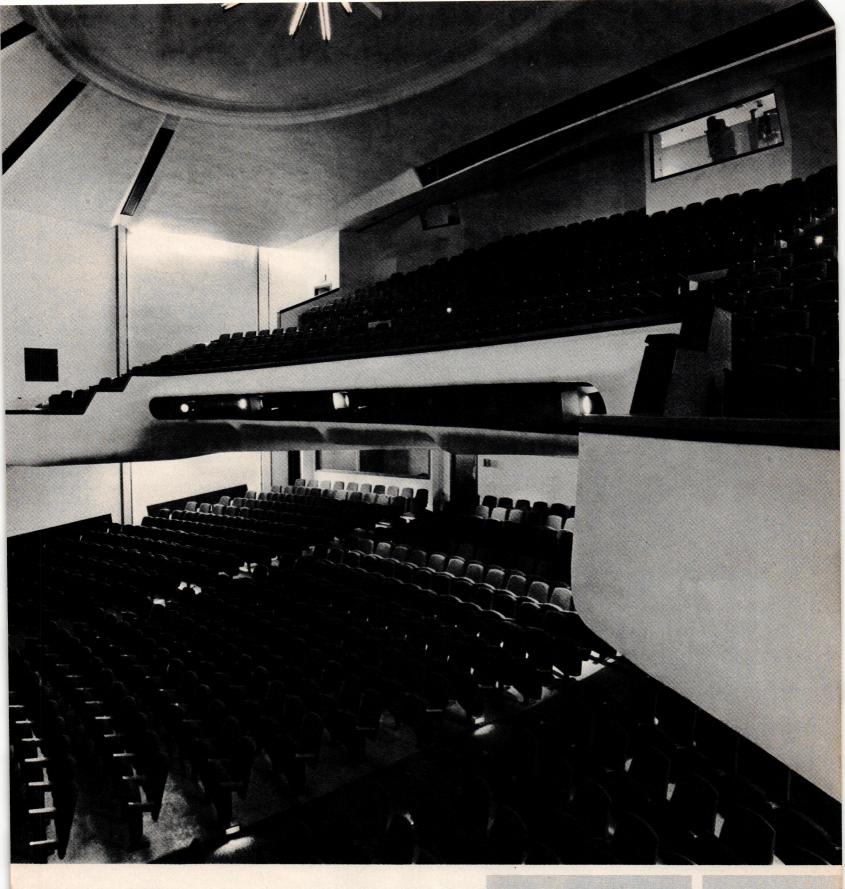
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62-63

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For more data, circle 42 on inquiry card

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Both combine design freedom with economy and long life.

Both systems can be installed easily and quickly, from the floor of the structure, without the need and expense of scaffolding.

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J-M Corspan is an extruded masonry panel manufactured in a wide variety of configurations and textures. It can be used as a complete wall for an entire structure of any size. Its unique advantages—strength without great weight, ease of handling, carefree beauty, versatility of shape and texture—have inspired architects to use Corspan in equally unique ways, many of which would be impossible with conventional masonry materials.

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Find out more about these unique wall systems. Refer to Sweets Architectural File, or write for brochure BSD2A (Corspan) and BSD14A (Struct-O-Wall), or contact Dave Lucy, Johns-Manville, Greenwood Plaza, Denver, Colorado 80217, 303/770-1000.



For more data, circle 43 on inquiry card



LAVATORY / The "Planet II" is a china wash basin 25-in.-wide, but shallow enough (18-in.) to fit most countertop designs. The self-rimming oval basin has twin soap recesses, concealed front overflow, and an antisplash rim. It is drilled for either 4-in. centerset or 8-in. combination fittings. It is available in marbleized china in blue, gold, green or white. . Universal-Rundle Corp., New Castle, Pa.

Circle 309 on inquiry card



BI-FOLD DOORS / Featuring a louver profile with a deep shadow effect, "Louver II" pre-finished steel doors are suitable for hallways, bedrooms, utility rooms, etc. Large louvers provide full-height ventilation; the unit includes all installation hardware. Door Systems Div., Evans Products,

Roseville, Mich.

colors bring to 15 the number of

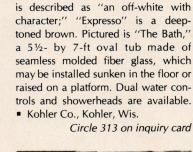
shades available in this full line of tubs, basins and toilets. "Parchment"



MICROWAVE/STANDARD OVENS /

New to this manufacturer's line are a full-feature large-capacity microwave oven with browning element; and a self-cleaning electric oven. The microwave unit may be built-in, or used as a counter-top, portable oven. Jenn-Air Corp., Indianapolis, Ind.

Circle 310 on inquiry card







AREA LIGHTING / A new product is the "Cameo" series of luminaires for area lighting indoors or out. Formed of acrylic, the fixtures are either rectangles or cubes, with oval or round cameo lenses. They take incandescent lamps, and can be pole-, bracket-, or pendant-mounted. Smoke gray, white, orange, black and amber acrylic colors are standard; other colors and designs may be ordered. • Architectural Area Lighting Co., Santa Fe Springs, Calif.

Circle 314 on inquiry card more products on page 141



FANCY-BUTT SHINGLES / Produced by a new method to ensure uniformity of pattern and size, these red cedar shingles are double-butted for design flexibility. Fourteen styles-seven straight cuts and seven curved-make a wide variety of effects possible. Shingles may be used on interior as well as exterior surfaces, and may be stained, left to weather, or painted. Homestead Mills, Ltd., Seattle, Wash.

Circle 311 on inquiry card



For more data, circle 44 on inquiry card

Mand Wrought Fron

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French Garden



BUILT-IN TO BLEND-IN All units built to 24" kitchen counter depth to fit flush with cabinets * Front & side panels to match your decor * Units will accept wood, glass, metal, leather, plastics . . . or use your imagination * 24", 30", 36", & 48" wide models * Largest capacity home units manufactured * All refrigerator, all freezer or combination models * "Over-n-under" or "side-byside" units * Built-in ice makers * Superb workmanship and individually factory tested for total performance.

SUB-ZERO Now Available in Canada

> Send for free colorful brochure on unique kitchens SUB-ZERO FREEZER CO 4130, Madison, Wisconsin 53711



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Made to fit. The new Markel wall-to-wall electric sill convectors.

A unique blend of form and function.

More than a new heater, the 4600 system offers variable heat densities, blank areas and control sections in custom length monolithic enclosures up to ten feet long. Inconspicuous seams permit infinite lengths, wall-towall. Simple field installation.

You can combine any of ten architecturally matching configurations, including pedestal types, to give each area the type and amount of heat required.

Vinyl coated, textured and stainless steel finishes available. Almost unlimited colors.

The new Markel 4600 series: a unique blend of form, function and economy.

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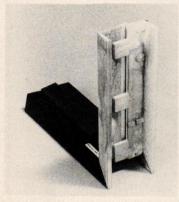
The electric heating company Markel Electric Products, Inc. 601 Amherst Street Buffalo, New York 14207

For more data, circle 46 on inquiry card



ALUMINUM SHINGLES / These allaluminum roofing shingles reproduce the textures and grains of wood, and are available in "cedar" and five colors. Coated with a finish said to be thicker than paint, the 2-ft-long panels will not chip, peel, warp, rot or blister. The aluminum-shingle roof creates a natural dead-air insulating space, and reflects heat away from the roof surface, according to the manufacturer. · Alcan Building Products, Warren, Ohio.

Circle 315 on inquiry card



DOOR FRAME / Made of highly impact-resistant polystyrene structural foam, this molded framing system consists of two jambs and a header. Each member is made in two pieces in an expandable, interlocking arrangement to accommodate various door opening widths. Molded-in recesses take strike plate and hinges. The frames will not rot, warp, crack, split or rust. • Steves Sash & Door Co., San Antonio, Texas. Circle 316 on inquiry card



VINYL FLOORING / "Colonial Sampler" is one of six new flooring. patterns recently introduced for residential (and do-it-yourself) applications. This is a no-wax sheet in 6- and 12-ft widths, available in gray/brown or blue/beige. Other new patterns are "Vancouver" sheet vinyl, a bold design in earth-tone colors; and "Los Alamos," a Southwest motif available in self-adhering 12-in. squares. Armstrong Cork Co., Lancaster, Pa.

Circle 317 on inquiry card

CAST IRON STOVES / Four models of cast iron stoves have been added to the manufacturer's fireplace line. Pictured is the Ben Franklin heater with hearth, double-hinged firebox doors and brass finials. Also available are two sizes of pot belly stoves; a frontor side-loading Newport Parlor stove; and the Boxwood Heater, with two lids to control draft. All stoves are cast iron with a flat-black finish. . Dyna Corp., Lynwood, Calif.

Circle 318 on inquiry card



GARAGE DOOR OPENERS / Newly introduced for the residential market. this automatic operator raises the garage door with a push button radio control. Once the car is parked, a second press of the button closes and locks the door and turns on a courtesy light for two minutes. If accidentally lowered on any obstruction, the door will automatically reverse direction. The unit includes the light and a lifetime-lubricated, thermal-protected 1/3hp motor; a key-operated switch for exterior mounting is an optional feature. Raynor Mfg. Co., Dixon, III.

Circle 319 on inquiry card



DOOR HANDLESET / Molded ABS thermoplastic knobs come in six highly-polished colored finishes. The Japanese-made handleset has a pushpull locking mechanism; the handle shaft and strike plate are steel. Mark Products, Knoxville, Tenn.

Circle 320 on inquiry card

more products on page 147



For more data, circle 47 on inquiry card



Gresham and Smith, Architects, design buildings to meet the needs of people as translated from clients.

The eighty physician medical clinic presented Gresham and Smith's architect design team with a variety of needs:

MAXIMUM FLOOR PLAN FLEXIBILITY

UNIFIED EXTERIOR TREATMENT

CAPABILITY FOR SHELLED-IN SPACE AND VERTICAL EXPANSION

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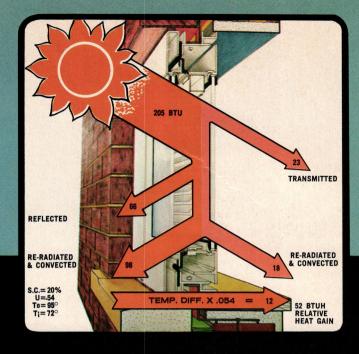
MAXIMUM NATURAL ILLUMINATION IN PATIENT TREATMENT AREAS

MINIMAL HEAT GAIN/HEAT LOSS

MINIMAL EXTERIOR SOUND TRANSMISSION

Aesthetically and economically, the Disco Window system provided the Gresham and Smith team with a solution to each of these challenges.

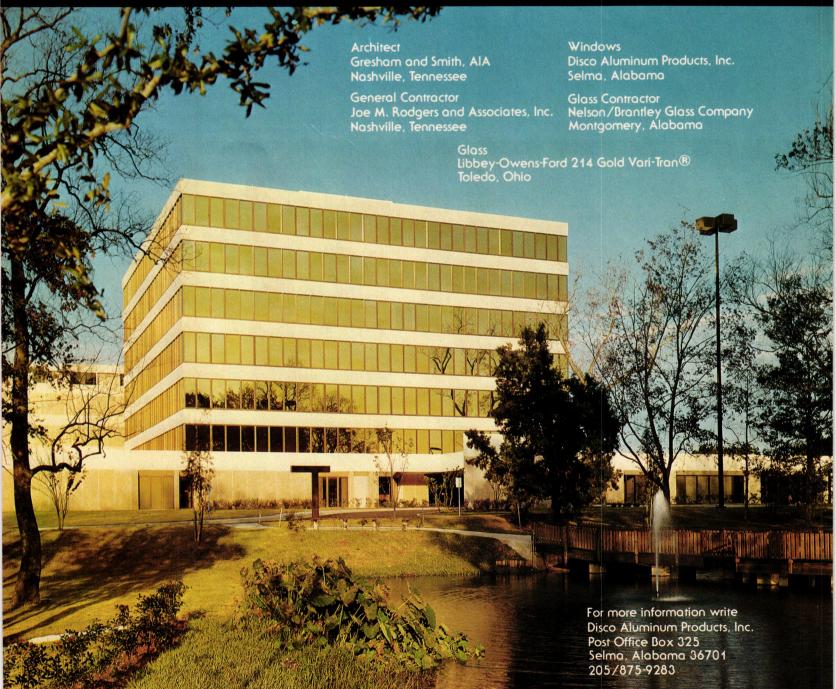
Architects for the Medical Center Clinic in Pensacola prescribed Weathertrol, Windows





DISCO ALUMINUM PRODUCTS, INC.

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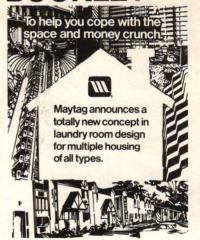
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No other commercially available wood surpasses Redwood for beauty in any setting. Left natural, it weathers to a soft driftwood gray. And Redwood is exceptionally resistant to surface checking, making it outstanding for durability and maintenance economy in any climate.

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enhances Redwood's natural charm. And because it's plywood, you get all the advantages of plywood, too. High strength-to-weight ratio. Easy handling. Excellent workability. Plus economy when compared with solid lumber.

Simpson Ruf-Sawn Redwood Plywood. A beautiful way to get back to nature.

For full information on grades, patterns and sizes, contact Simpson Timber Company, 2000 Washington Building, Seattle, Washington 98101, 206-682-2828.

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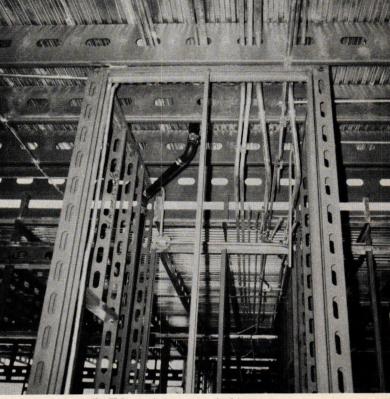
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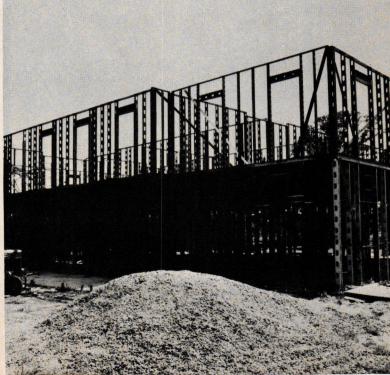




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one else), load tables, etc.

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Viviendas La Victoria is a Boston housing project by John Sharratt Associates. There are 151,000 sq. ft. of steel framing in the wall areas; 83,000 sq. ft. of floor joist framing and 20,000 sq. ft. of specially-designed fabricated steel trusses in the roof framing systems.

Architect John Guarino, AIA, chose Wheeling Steel Framing for the Fernald School, also located in Massachusetts. The exterior is brick veneer over gypsum sheathing. The versatility of steel framing makes it ideal for school construction.

